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UTAH VITAL STATISTICS

ANNUAL REPORT

1978

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Utah State Department of Health
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PREFACE

This report contains vital statistics data for Utah events that occurred in 1978. The source of these data is the approximately 50,000 certificates and transcripts registered for 1978 in the Bureau of Health Statistics of the Utah State Department of Health.

The purpose of this report is to provide needed data for planners, students, researchers, public officials, private businesses and the general public. Data are presented for the State of Utah, the multi-county districts, and each of its counties. Marriage and divorce statistics are provided as totals in this report. Another report of the Bureau treats them more extensively.

The initial part of this report contains a narrative section with tables and charts to provide some analyses and explanation of these data. This is followed by a section of reference tables with more detailed information. A listing of other tables omitted from this report appears at the end of the table of contents. These tabulations will be provided upon request to the Bureau. The last section of the report is the Technical Appendix with information on the sources, definitions, quality, and limitations of the data.

This publication was prepared by the staff of the Center for Health Statistics under the supervision of Marvin Levy, Deputy Director of the Bureau of Health Statistics. The statistical tabulations and analyses were prepared by Gery E. Moore, Statistician. Marie Wonnacott prepared the manuscript for printing.

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INTRODUCTION

AN OVERVIEW OF UTAH'S VITAL STATISTICS

The estimated population of Utah for July 1, 1978 was 1,317,000 persons. This compares with a 1977 figure of 1,270,000, an increase of 3.7 percent. During the same period of time the U.S. population increased 0.6 percent.

There were 38,811 live births recorded to Utah residents. This represented a birth rate of 29.5 live births per 1,000 population. The corresponding U.S. rate was 15.3.[1] [2]

There were 7,871 Utah resident deaths, resulting in a mortality rate of 6.0 deaths per 1,000 population. The corresponding rate for the United States was 8.8.[2]

The rate of natural increase in Utah was 23.5 persons per 1,000 population. The rate nationally was 6.5 persons per 1,000 population.

There were 443 Utah residents who died in infancy. This represented an infant mortality rate of 11.4 infant deaths per 1,000 live births. The corresponding U.S. rate was 13.6. Of these 443 infants, 302 died during the neonatal period, under 28 days of age. The neonatal mortality rate was 7.8 deaths per 1,000 live births. The neonatal mortality rate nationally was 9.4 per 1,000 live births.[2]

There were 283 stillbirths to Utah residents, representing a fetal mortality rate of 7.3 fetal deaths per 1,000 live births in 1978. The latest fetal mortality rate for the United States was 10.5 in 1976.

There were two resident females who died of maternal-related conditions. This represents a maternal mortality rate of 5.2 deaths per 100,000 live births. The corresponding U.S. rate was 9.9.

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[1] All rate comparisons with the United States are for 1978 unless otherwise indicated.

[2] Monthly Vital Statistics Annual Summary for U.S., 1978 (PHS) 79-1120, Vol. 27, No. 13 (National Center for Health Statistics, Hyattsville, Maryland 20782), August 13, 1979.

There were 16,367 marriages performed and 7,128 divorces and annulments granted in Utah in 1978. This gave Utah a marriage and a divorce rate of 12.4 and 5.4 per 1,000 population, respectively. More detailed data will be found in the annual report, Utah Marriage and Divorce 1978.

The trend of Utah's vital events since 1935 is presented in Table 2 and Figure 1.

The national birthrate has remained relatively constant since 1972; however, the Utah rate is increasing and is consistently higher than the national rate. Two factors account for the difference in these rates: the first is the slightly higher percentage of females in the childbearing ages, 15-44, in Utah compared to the United States (Table 1); and second, residents of Utah apparently desire to have large families. The average number of children ever born to women ever married in Utah, ages 15-44, was 3.9 compared to the average of 2.1 in the United States.[1]

TABLE 1

PERCENTAGE DISTRIBUTION OF FEMALES BY AGE GROUPS: UTAH AND UNITED STATES, 1978

	Utah	U.S.*
Total	100.0	100.0
Under 15	29.9	27.3
15-44	45.0	40.7
45-64	16.6	20.9
65+	8.5	11.2

*U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 493, "Projections of the Population of the United States, by Age and Sex: 1972 to 2020," U.S. Government Printing Office, Washington, D.C., 1972.

Utah's population has a different age distribution than the United States (Figure 2). This difference partially accounts for the differences in the crude birth and death rates. These rates are illustrated in the graphs in Figure 3 for the years 1955-1978.

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[1] General Social and Economic Characteristics, U.S. Bureau of the Census, Census of Population; 1970, Final Report PC(1)-C 46, Utah, February 1972, pages 46-119.

TABLE 2

STATISTICAL SUMMARY (ESTIMATED MIDYEAR POPULATION, LIVE BIRTHS, DEATHS MATERNAL DEATHS, INFANT DEATHS, FETAL DEATHS, MARRIAGES, AND DIVORCES AND ANNULMENTS): UTAH, 1935-1978

Year	Estimated[1] Midyear Population	Live Births	Deaths	Maternal Deaths	Infant Deaths	Fetal Deaths	Marriages	Divorces and Annulments
1978	1,317,000	38,811	7,871	2	443	283	16,367	7,128
1977	1,270,000	37,956	7,612	4	381	318	15,098	6,947
1976	1,232,000	35,310	7,472	7	414	275	14,693	6,170
1975	1,203,000	31,667	7,519	6	415	257	14,858	6,131
1974	1,179,000	29,946	7,380	2	364	286	15,164	5,670
1973	1,150,000	27,978	7,573	5	354	219	14,840	5,137
1972	1,128,000	26,911	7,323	12	360	263	13,911	4,876
1971	1,095,000	27,552	7,245	2	382	258	12,497	4,419
1970	1,066,000	26,969	7,063	6	405	298	11,938	3,912
1969	1,047,000	24,232	6,791	4	382	238	11,633	3,841
1968	1,029,000	23,193	6,882	3	410	240	11,558	3,390
1967	1,019,000	22,948	6,516	3	383	241	10,220	3,288
1966	1,009,000	22,601	6,850	5	414	222	9,623	3,090
1965	991,000	22,261	6,672	5	419	224	8,736	2,872
1964	978,000	23,844	6,404	3	482	237	8,525	2,895
1963	974,000	24,952	6,544	4	464	288	8,194	2,659
1962	958,000	26,213	6,325	9	525	290	7,651	2,480
1961	936,000	26,590	6,081	7	538	263	7,401	2,360
1960	900,000	26,272	5,997	5	517	276	7,119	2,167
1959	870,000	25,645	5,879	10	514	321	6,734	2,179
1958	845,000	25,384	5,809	10	564	325	6,600	2,002
1957	826,000	26,064	5,696	8	561	317	6,672	1,565
1956	809,000	25,449	5,579	7	571	320	6,657	2,189
1955	783,000	25,103	5,382	7	507	330	6,294	2,059
1954	750,000	24,905	5,294	6	506	325	6,295	2,140
1953	739,000	24,147	5,394	5	565	301	6,926	2,433
1952	724,000	24,236	5,495	11	590	313	6,752	2,331
1951	706,000	22,853	5,204	10	565	276	6,843	2,271
1950	696,000	21,535	5,048	7	506	256	7,110	2,107
1949	671,000	20,984	4,788	5	527	297	6,402	2,166
1948	653,000	20,869	5,070	12	550	298	7,327	2,199
1947	636,000	21,724	4,996	17	545	303	7,965	2,927
1946	638,000	18,220	4,785	25	496	293	9,781	3,434
1945	591,000	15,680	4,859	21	488	268	7,034	2,651
1944	605,000	15,180	4,957	22	548	248	6,262	2,995
1943	631,000	17,161	5,054	27	539	275	6,705	1,982
1942	575,000	15,822	4,849	27	522	281	6,081	1,433
1941	551,000	13,548	4,518	26	402	268	7,263	1,360
1940	554,000	13,347	4,845	36	539	253	8,254	1,500
1939	543,000	13,007	4,712	40	544	278	([2])	([2])
1938	535,000	13,214	4,853	40	610	280	([2])	([2])
1937	529,000	12,693	4,989	42	525	262	([2])	([2])
1936	527,000	12,551	5,126	55	661	255	([2])	([2])
1935	526,000	12,695	5,066	59	625	274	([2])	([2])

[1] The population estimates for 1935-1959 have been revised to agree with U.S. census estimates and will not agree with prior reports in this series.

[2] Information not available.

TABLE 3

COMPARISON OF VITAL STATISTICS RATES: U.S.* AND UTAH, 1950-1978

Year	Birth		Death		Natural Increase		Maternal Death		Infant Death		Fetal Death		Marriage		Divorce and Annulment	
	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah
1978	15.3	29.5	8.8	6.0	6.5	23.5	0.1	0.1	14.2	11.4	N.A.	7.3	10.3	12.4	5.2	5.4
1977	14.8	29.9	8.8	6.0	6.0	23.9	0.1	0.1	14.1	10.0	N.A.	8.3	10.1	11.9	5.0	5.5
1976	14.7	28.7	8.9	6.1	5.8	22.6	0.1	0.2	15.1	11.7	N.A.	7.8	9.9	11.9	5.0	5.0
1975	14.8	26.3	9.0	6.3	5.8	20.1	0.1	0.2	16.1	13.1	10.7	8.1	10.0	12.4	4.8	5.1
1974	15.0	25.4	9.1	6.3	5.9	19.3	0.1	0.1	16.7	12.2	11.5	9.6	10.5	12.9	4.6	4.8
1973	14.9	24.3	9.4	6.6	5.5	17.7	0.2	0.2	17.7	12.7	12.2	7.8	10.9	12.9	4.4	4.5
1972	15.6	23.9	9.4	6.5	6.2	17.4	0.2	0.4	18.5	13.4	12.7	9.8	11.0	12.3	4.0	4.2
1971	17.2	25.2	9.3	6.6	7.9	18.6	0.2	0.1	19.1	13.9	13.4	10.8	10.6	11.4	3.7	3.8
1970	18.7	25.3	9.5	6.6	9.2	18.7	0.2	0.2	20.0	15.0	14.2	11.0	10.6	11.2	3.5	3.7
1969	17.8	23.1	9.5	6.5	8.3	16.6	0.2	0.2	20.9	15.8	14.1	9.8	10.6	11.1	3.2	3.7
1968	17.5	22.5	9.7	6.7	7.8	15.7	0.2	0.1	21.8	17.7	15.8	10.3	10.4	11.2	2.9	3.3
1967	17.8	22.5	9.4	6.4	8.4	16.0	0.3	0.1	22.4	16.7	15.6	10.5	9.7	10.0	2.6	3.2
1966	18.4	22.4	9.5	6.8	8.9	15.6	0.3	0.2	23.7	18.3	15.7	9.8	9.4	9.5	2.5	3.1
1965	19.4	22.4	9.4	6.7	10.0	15.7	0.3	0.2	24.7	18.8	16.2	10.1	9.3	8.8	2.5	2.9
1964	21.0	24.4	9.4	6.5	11.6	17.9	0.3	0.1	24.8	20.2	16.4	9.9	9.0	8.7	2.4	3.0
1963	21.7	25.6	9.5	6.7	12.2	19.0	0.4	0.2	25.2	18.6	15.8	11.4	8.8	8.4	2.3	2.7
1962	22.4	27.3	9.4	6.6	13.0	17.9	0.4	0.3	25.3	20.0	15.9	11.1	8.5	8.0	2.2	2.6
1961	23.3	28.4	9.3	6.5	14.0	20.8	0.4	0.3	25.3	20.2	16.1	9.9	8.5	7.9	2.3	2.5
1960	23.7	29.2	9.5	6.7	14.2	22.9	0.4	0.2	26.0	19.6	16.1	10.4	8.5	7.9	2.2	2.4
1959	24.0	29.1	9.3	6.7	14.7	22.4	0.4	0.4	26.4	20.0	16.2	12.5	8.5	7.6	2.2	2.5
1958	24.3	29.6	9.4	6.8	14.9	22.8	0.4	0.4	27.1	22.2	16.5	12.8	8.4	7.7	2.1	2.3
1957	25.0	31.0	9.5	6.8	15.5	24.2	0.4	0.3	26.3	21.5	16.3	12.2	8.9	7.9	2.2	1.9
1956	24.9	30.8	9.3	6.8	15.6	24.0	0.4	0.3	26.0	22.4	16.5	12.6	9.5	8.1	2.3	2.7
1955	24.6	31.4	9.2	6.7	15.4	24.7	0.5	0.3	26.4	20.2	17.1	13.1	9.3	8.7	2.3	2.6
1954	24.9	32.6	9.1	6.9	15.8	25.7	0.5	0.2	26.6	20.3	17.5	13.0	9.2	8.3	2.4	2.8
1953	24.7	32.2	9.4	7.2	15.3	25.0	0.6	0.2	27.8	23.4	17.8	12.5	9.8	9.2	2.5	3.2
1952	24.7	33.2	9.4	7.5	15.3	25.7	0.7	0.4	28.4	24.3	18.3	12.9	9.9	9.2	2.5	3.2
1951	24.5	32.2	9.5	7.3	15.0	24.9	0.8	0.4	28.4	24.7	18.8	12.1	10.4	9.6	2.5	3.2
1950	23.6	30.9	9.5	7.3	14.1	23.6	0.8	0.3	29.2	23.5	19.2	12.3	11.1	10.2	2.6	3.0

*Monthly Vital Statistics Report Annual Summary for U.S., 1978 (PHS) 79-1120, vol. 27, no. 13 (National Center for Health Statistics, Hyattsville, Maryland 20782), August 13, 1979.

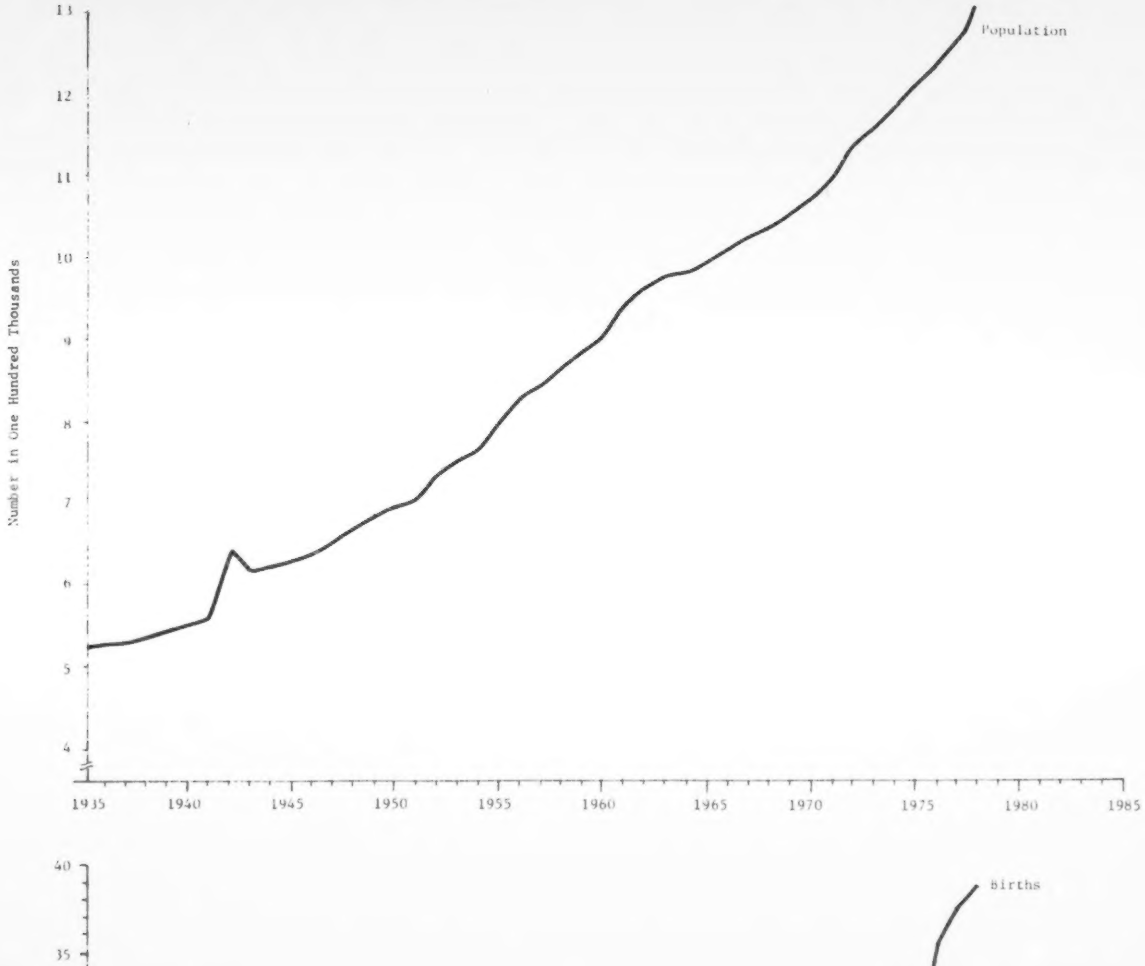


FIGURE 1. TRENDS IN POPULATION, BIRTHS, DEATHS, AND NATURAL INCREASE: UTAH, 1935-1978

FIGURE 2. POPULATION BY AGE AND SEX: (PERCENTAGE DISTRIBUTION)
UTAH AND U.S., 1975

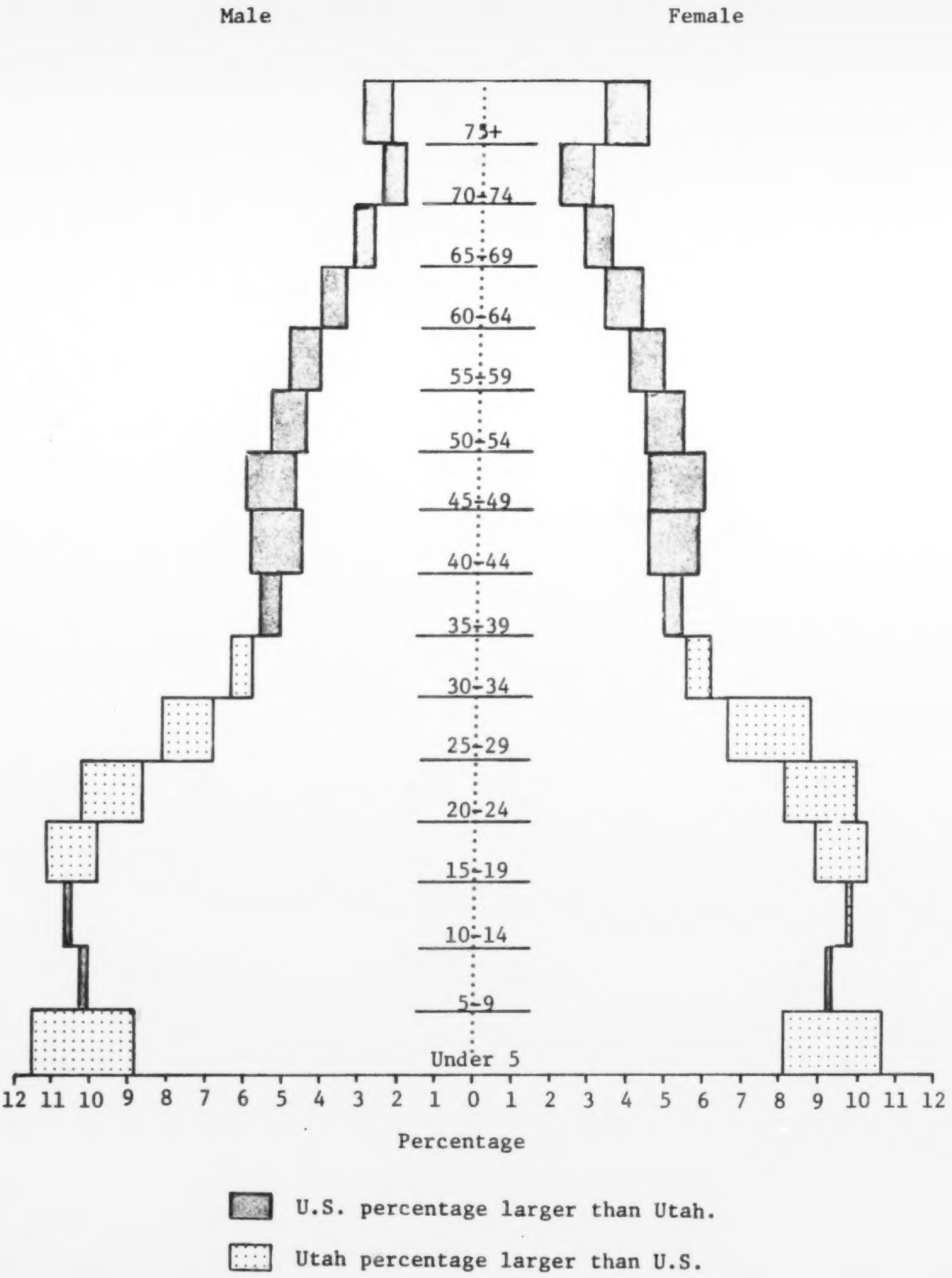
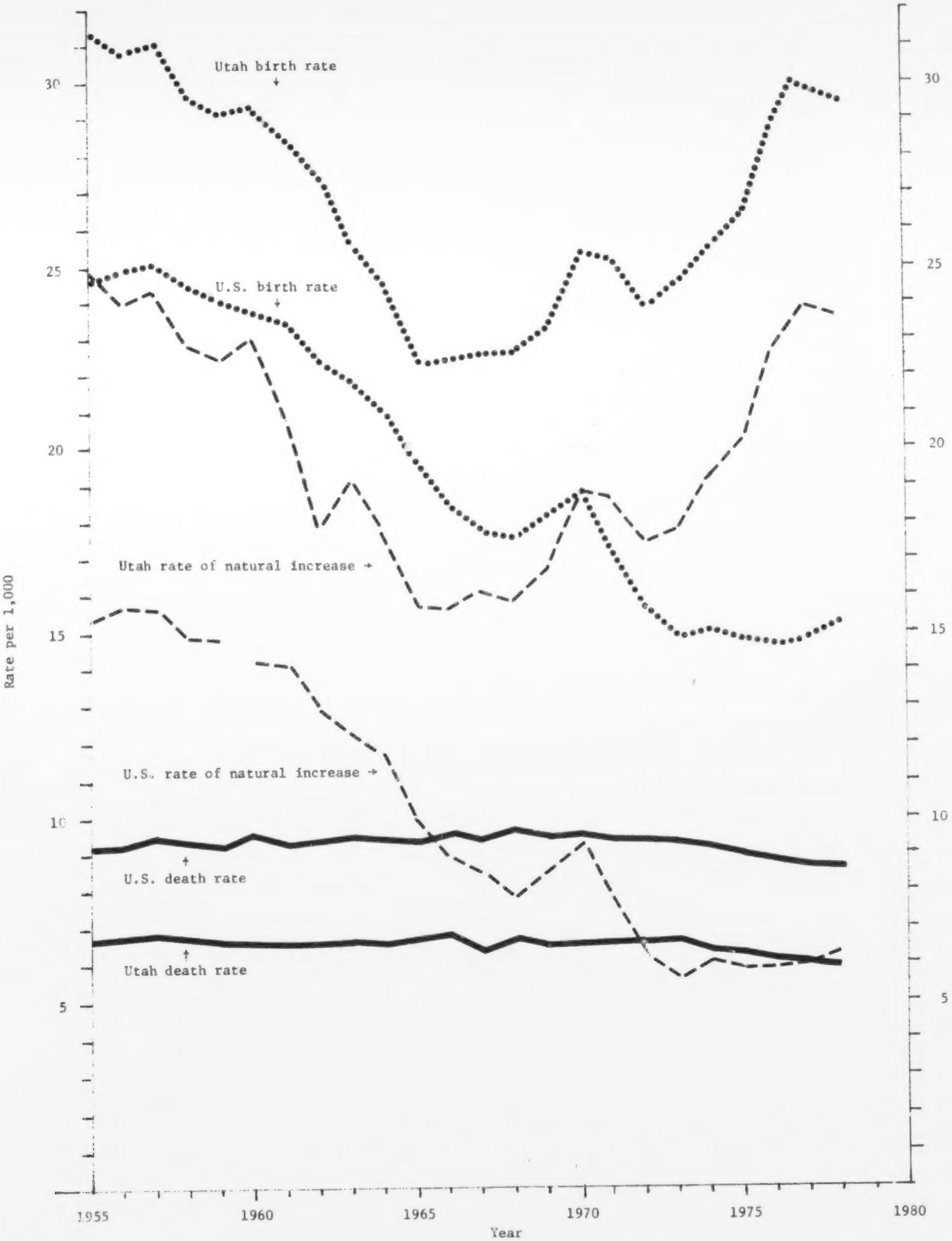


FIGURE 3. BIRTH RATE, DEATH RATE, AND RATE OF NATURAL INCREASE: U.S. AND UTAH, 1955-1978



Between 1935 and 1978, Utah's population increased by 150 percent. During this time, the annual number of births has tripled to 38,811, an increase of 206 percent in 1978 over 1935. The lowest birth rate, 22.4, was recorded in both 1965 and 1966. Between 1950 and 1957 the birth rate exceeded 30 births per thousand population. Between 1950 and 1978 the death rate dropped 17.8 percent, from 7.3 to 6.0.

The 1978 maternal death rate was 67 percent less than it was in 1950. However, the number of occurrences is so few that comparisons between any given years have little significance. The infant death rate has dropped 51 percent, from 23.5 in 1950 to 11.4 per thousand live births in 1978.

Since 1950 the fetal death rate has dropped 41 percent. The highest fetal death rate, 29.6, was recorded in 1937; the lowest, 7.3, was recorded in 1978.

The mortality rates over the past 20 years were fairly stable in both Utah and the United States, however, the mortality rate in Utah has been consistently lower than the national rate. This is due in large part to Utah's younger population. After the age of 14, age-specific mortality rates increase with age.

Table 4 compares the leading causes of death for Utah and the United States. Despite the differences in the ages of the two populations, the five leading causes of death in Utah were the same as the United States--diseases of the heart, malignant neoplasms, cerebrovascular disease, accidents, and influenza and pneumonia. Although the mortality rates per 100,000 population for four of these five causes of death were considerably lower in Utah, the percentage contribution for each to the total number of deaths was similar. Two differences are noted. One occurred in the leading cause, diseases of the heart. Nationally, over 37 percent of the deaths in 1978 were due to diseases of the heart; while in Utah, over 33 percent of the total deaths were due to heart diseases. The second difference occurred in deaths from accidents, where nationally 5.6 percent died of injuries suffered in accidents; in Utah 8.8 percent died of accidental injury.

TABLE 4

LEADING CAUSES OF DEATH: UNITED STATES AND UTAH, 1978

United States, 1978*				Utah, 1978			
Rank Cause	ICDA Code	Rate per 100,000 Population	Percentage of Deaths	Rank Cause	Number	Rate per 100,000 Population	Percentage of Deaths
Total		882.3	100.0	Total	7,871	597.6	100.0
1. Diseases of the heart	390-398,402 404,410-429	333.9	37.8	1. Diseases of the heart	2,658	201.8	33.8
2. Malignant neoplasms	140-209	181.6	20.6	2. Malignant neoplasms	1,310	99.5	16.6
3. Cerebrovascular disease	430-438	79.1	9.0	3. Accidents	694	52.7	8.8
4. Accidents	E800-E949	49.5	5.6	4. Cerebrovascular disease	676	51.3	8.6
5. Influenza and pneumonia	480-486	26.7	3.0	5. Influenza and pneumonia	261	19.8	3.3
6. Diabetes mellitus	250	15.0	1.7	6. Certain diseases of early infancy	183	13.9	2.3
7. Cirrhosis of the liver	571	13.7	1.6	7. Suicide	167	12.7	2.1
8. Arteriosclerosis	440	13.4	1.5	8. Diabetes mellitus	167	12.7	2.1
9. Suicide	E950-E959	12.6	1.4	9. Congenital anomalies	162	12.3	2.1
10. Certain diseases of early infancy	760-779	10.1	1.1	10. Other diseases of respiratory system	139	10.6	1.8
11. Bronchitis, emphysema and asthma	490-493	10.0	1.1	11. Arteriosclerosis	105	8.0	1.3
12. Homicide	E960-E978	9.7	1.1	12. Bronchitis, emph. and asthma	102	7.7	1.3
Residual			14.4	Residual	1,247		15.8

*Monthly Vital Statistics Report, Annual Summary U.S. 1978, Vol. 27, No. 13, August 12, 1979, Hyattsville, Maryland, U.S. Dept. Health, Education, and Welfare, Public Health Service, Health Resources Administration, National Center for Health Statistics.

The county population estimates used in this publication were prepared by the Utah Population Work Committee. The age and sex population estimates were prepared by the staff of the Bureau of Health Statistics, Utah State Department of Health. The estimates for 1970 and 1978 are presented in Table 6. These age-sex population estimates will be used for determination of fertility and age-specific death rates presented in this report. Infant and fetal death rates are based on the number of live births per year.

Utah's 29 counties are divided into 7 multiplanning regions. The map in Figure 4 depicts these county groupings. Table 7 is a statistical summary by county of residence and by multicounty region of vital events occurring in Utah during 1978.

More than three-quarters of Utah's population live in the counties along the Wasatch Front (Davis, Salt Lake, Utah, and Weber) within a 50-mile radius of Salt Lake City. Table 5 contains a brief summary of the vital events of residents of the State, the four "urban counties," and the balance of the State, i.e., the rural counties.

TABLE 5

POPULATION, BIRTHS, DEATHS, AND RATES BY RURAL-URBAN COUNTY OF RESIDENCE: UTAH, 1978

	State	Urban Counties[1]	Rural Counties
Population estimates, 1977	1,317,000	1,014,000	303,000
Births	38,811	29,991	8,820
Birth rate[2]	29.5	29.6	29.1
Deaths	7,871	5,801	2,070
Death rate[2]	6.0	5.7	6.8
Infant deaths	443	335	108
Infant death rate[2]	11.4	11.2	12.2
Fetal deaths	283	223	60
Fetal death rate[2]	7.3	7.4	6.8

[1] Urban counties are Davis, Salt Lake, Utah, and Weber.

[2] Birth and death rates per 1,000 population; infant and fetal death rates per 1,000 live births.

TABLE 6

ESTIMATED POPULATION BY AGE AND SEX: UTAH, 1970, 1978

Age and Sex	1970 Census	1978
Total	1,059,273	1,317,000
Male	523,265	650,452
Female	536,008	666,548
Under 5	111,798	141,960
Male	57,300	72,499
Female	54,498	69,461
Under 1	24,672	38,811
Male	12,722	19,886
Female	11,950	18,925
1-4	87,126	103,149
Male	44,576	52,613
Female	42,548	50,536
5-14	240,751	257,862
Male	122,592	131,627
Female	118,159	126,235
15-24	214,466	265,940
Male	104,400	134,541
Female	110,066	131,399
25-34	129,961	207,432
Male	64,618	100,340
Female	65,343	107,092
35-44	107,548	129,802
Male	53,257	64,055
Female	54,291	65,747
45-54	100,983	115,014
Male	49,796	56,433
Female	51,187	58,581
55-64	76,205	97,509
Male	37,305	46,893
Female	38,900	50,616
65-74	48,175	63,827
Male	21,923	29,077
Female	26,252	34,750
75-84	23,389	30,840
Male	9,722	12,454
Female	13,667	18,386
85+	5,997	6,792
Male	2,352	2,519
Female	3,645	4,273

FIGURE 4

UTAH MULTICOUNTY ASSOCIATIONS OF GOVERNMENT

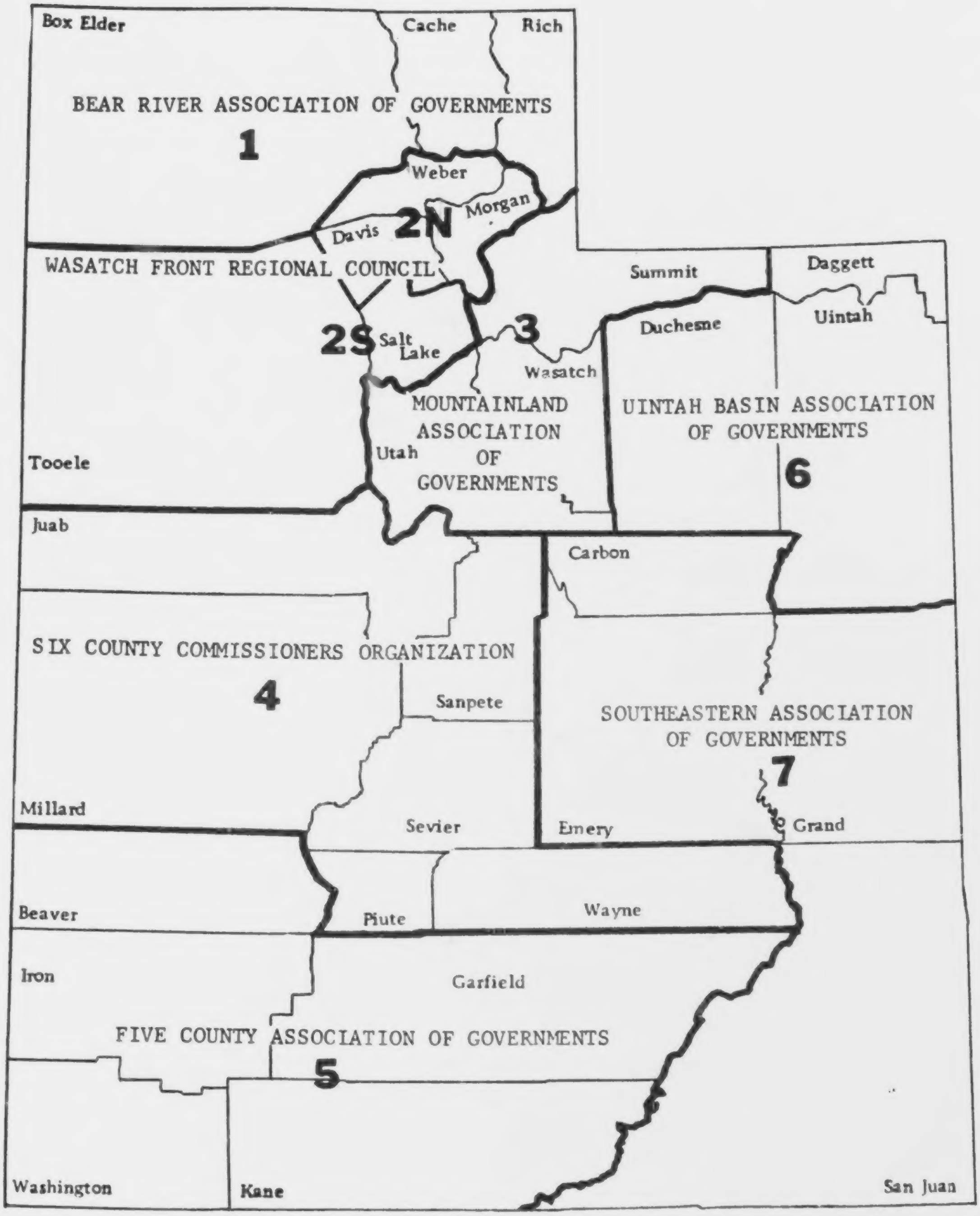

Box Elder
Cache
Rich
BEAR RIVER ASSOCIATION OF GOVERNMENTS
1
Weber
Morgan
Davis
2N
WASATCH FRONT REGIONAL COUNCIL
Summit
Daggett
Uintah
Duchesne
2S
Salt Lake
3
Wasatch
MOUNTAINLAND ASSOCIATION OF GOVERNMENTS
UINTAH BASIN ASSOCIATION OF GOVERNMENTS
Utah
Tooele
6
Juab
Carbon
SIX COUNTY COMMISSIONERS ORGANIZATION
4
Sanpete
SOUTHEASTERN ASSOCIATION OF GOVERNMENTS
7
Millard
Sevier
Emery
Grand
Beaver
Piute
Wayne
Iron
Garfield
FIVE COUNTY ASSOCIATION OF GOVERNMENTS
5
Washington
Kane
San Juan

TABLE 7

STATISTICAL SUMMARY (ESTIMATED MIDYEAR POPULATION, LIVE BIRTHS, DEATHS, MATERNAL DEATHS, INFANT DEATHS, FETAL DEATHS) BY COUNTY: UTAH, 1978

District and County	Estimated Midyear Population	Live Births		Deaths		Maternal Deaths	Infant Deaths		Fetal Deaths	
		Number	Rate[1]	Number	Rate[1]		Number	Rate[2]	Number	Rate[2]
Total	1,317,000	38,811	29.5	7,871	6.0	2	443	11.4	283	7.3
District 1	87,500	2,527	28.9	511	5.8	. .	32	12.7	18	7.1
Box Elder	32,100	808	25.2	208	6.5	. .	14	17.3	9	11.1
Cache	53,600	1,670	31.2	294	5.5	. .	16	9.6	9	5.4
Rich	1,800	49	27.2	9	5.0	. .	2	. .	. .	. .
District 2N	276,100	7,310	26.5	1,492	5.4	. .	89	12.2	54	7.4
Davis	130,000	3,681	28.3	502	3.9	. .	46	12.5	25	6.8
Morgan	5,100	108	21.2	29	5.7	. .	2	. .	1	. .
Weber	141,000	3,521	25.0	961	6.8	. .	41	11.6	28	8.0
District 2S	568,600	15,845	27.9	3,523	6.2	. .	165	10.4	123	7.8
Salt Lake	544,000	15,241	28.0	3,380	6.2	. .	158	10.4	116	7.6
Tooele	24,600	604	24.6	143	5.8	. .	7	. .	7	. .
District 3	204,700	7,993	39.0	1,063	5.2	. .	92	11.5	59	7.4
Summit	8,000	223	27.9	43	5.4	. .	. .	. .	2	. .
Utah	189,000	7,548	39.9	958	5.1	1	90	11.9	54	7.2
Wasatch	7,700	222	28.8	62	8.1	. .	2	. .	3	. .
District 4	46,400	1,234	26.6	391	8.4	. .	16	13.0	7	. .
Juab	5,700	137	24.0	41	7.2	. .	1	. .	. .	. .
Millard	8,700	226	26.0	73	8.4	. .	2	. .	3	. .
Piute	1,400	31	22.1	7	. .	. .	. .	. .	. .	. .
Sanpete	14,300	371	25.9	155	10.8	. .	8	21.6	3	. .
Sevier	14,400	424	29.4	106	7.4	1	5	. .	1	. .
Wayne	1,900	45	23.7	9	4.7	. .	. .	. .	. .	. .
District 5	49,100	1,433	29.2	368	7.5	. .	22	15.4	9	6.3
Beaver	4,300	99	23.0	38	8.8	. .	4	. .	. .	. .
Garfield	3,800	81	21.3	33	8.7	. .	2	. .	. .	. .
Iron	16,400	509	31.0	95	5.8	. .	7	. .	7	. .
Kane	4,000	92	23.0	32	8.0	. .	2	. .	. .	. .
Washington	20,600	652	31.7	170	8.3	. .	7	. .	2	. .
District 6	31,100	993	31.9	180	5.8	. .	8	8.1	6	. .
Daggett	800	16	20.0	5	. .	. .	. .	. .	. .	. .
Duchesne	11,700	389	33.2	77	6.6	. .	3	. .	3	. .
Uintah	18,600	588	31.6	98	5.3	. .	5	. .	3	. .
District 7	53,500	1,476	27.6	343	6.4	. .	19	12.9	7	. .
Carbon	21,300	563	26.4	179	8.4	. .	7	. .	3	. .
Emery	10,100	332	32.9	64	6.3	. .	3	. .	1	. .
Grand	8,000	205	25.6	49	6.1	. .	3	. .	1	. .
San Juan	14,100	376	26.7	51	3.6	. .	6	. .	2	. .

[1] Per 1,000 population.

[2] Per 1,000 live births; rates not computed where number of occurrences is 7 or less.

In the urban counties, the birth and fetal mortality rates were higher, while the mortality and infant death rates were lower than the State's rates. In the rural counties, the birth and fetal death rates were lower than those of the State; however, the mortality and infant death rates were higher. The higher mortality rate in rural areas can partially be attributed to the "older" rural population.

Another approach to the rural-urban analysis is to use the Bureau of Census' classifications of Standard Metropolitan Statistical Area (S.M.S.A.), urban and rural areas.

There are two S.M.S.A.s in Utah. One, the Salt Lake-Ogden area, consists of Davis, Salt Lake, Tooele, and Weber Counties. The 1978 population of this S.M.S.A. was 839,600. The second S.M.S.A. is entirely within Utah County, and its population was 189,000 in 1978.

The other urban population is defined as ". . . all persons living in urbanized areas."[1] and ". . . incorporated places of 2,500 inhabitants or more. . . . small parcels of land normally less than one square mile in area having a population density of 1,000 inhabitants or more per square mile."[1] For purposes of this analysis the following cities make up the "other urban" category: Blanding, Brigham City, Cedar City, Heber, Hyrum, Logan, Moab, Nephi, Price, Richfield, Roosevelt, St. George, Smithfield, Tremonton, and Vernal.

The rural population is defined as "all persons residing in the 24 counties except Davis, Salt Lake, Tooele, Utah, and Weber; and excluding the populations for the 15 cities listed in the preceding paragraph, which are defined as 'other urban.'"[1]

Table 8 shows a comparison of vital events for the two S.M.S.A.s combined, the "other urban," and "rural" areas. This summary includes some rural areas within the two S.M.S.A.s; while some small urban areas, e.g., Delta, Park City, Manti, are included in the rural grouping. This tabulation is more sensitive than the one in Table 5. The birth rate for the rural area was 25.4 and was the lowest for the State. The mortality and infant mortality rates for the rural areas were 6.7 and 15.4, respectively; the infant mortality rate was the highest in the State. The fetal mortality rate for rural areas, 6.3, was the lowest in the State.

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[1] General Social and Economic Characteristics, Utah, U.S. Dept. of Commerce, Bureau of Census, 1970, pages App-1, and App-3, Appendix A.

TABLE 8

POPULATION, BIRTHS, DEATHS, AND RATES BY PLACE OF RESIDENCE: UTAH, 1978

	State[1] Total	S.M.S.A. Total	Other[2] Urban	Rural
Population	1,317,000	1,028,600	114,860	173,540
Births	38,811	30,595	3,800	4,416
Birth rate	29.5	29.7	33.1	25.4
Deaths	7,871	5,944	784	1,143
Death rate	6.0	5.8	6.8	6.7
Infant deaths	443	342	33	68
Infant death rate	11.4	11.2	8.7	15.4
Fetal deaths	283	230	25	28
Fetal death rate	7.3	7.5	6.6	6.3

[1] Population estimated by the Utah Population Work Committee.

[2] Population estimates by Bureau of Health Statistics from unpublished data furnished by the Bureau of Census.

Note: Birth and death rate per 1,000 population; infant and fetal death rate per 1,000 live births.

BIRTHS

BIRTH SUMMARY

The 38,811 reported live births to Utah residents in 1978 represented an increase of 855 or 2.3 percent over the 37,956 reported in 1977. The 1978 birthrate of 29.5 per 1,000 population is a 1.3 percent decrease from the 1977 rate of 29.9.

The Utah fertility rate in 1978 was 127.4 live births per 1,000 women ages 15-44. This rate was 92 percent higher than the national fertility rate of 66.4 for the same year. Nationally, the fertility rate continued to decline from a peak of 122.9 in 1957 to 66.4 in 1978. The Utah fertility rate, which showed a steady decline between 1958 and 1968, from 147.9 to 106.6, appears to have risen erratically for the next 7 years, and in 1976 made an abrupt increase which continued in 1977, but decreased in 1978. The fertility rate in Utah has been consistently higher than the national rate (Table 9).

The highest birthrate in the State, 39.9, was in Utah County; the highest birthrate for counties with more than 5,000 population, 39.9, was in Utah County; the lowest birthrate in the same category, 21.2, was in Morgan County (Table 7).

The data in Table 10 give the number of births occurring to Utah residents by county of residence and by county of occurrence. The 6 counties without hospitals reported only 9 births occurring in those counties, even though there were 581 births to residents of those counties during 1978.

Most of the infants born in Utah were delivered in a hospital (98.8 percent) and by a physician (97.5 percent).

Table 11 summarizes the low-birth-weight (less than 5 pounds 8 ounces) infants in 1978 by race of mother. Blacks had the highest percentage (7.3 percent) of low-birth-weight infants in the State: while other nonwhites experienced the lowest percentage (4.9 percent). In the United States during 1978, the percentage of black low-birth-weight

TABLE 9

FEMALES AGES 15-44, BIRTHS, AND FERTILITY RATES: UTAH AND U.S., 1952-1978

Year	Utah Females Ages 15-44	Resident Live Births	Fertility Rate[1]	
			Utah	U.S.
1952	157,080	24,236	154.3	[2]113.9
1953	159,340	24,147	151.5	[2]115.2
1954	161,910	24,905	153.8	[2]118.1
1955	164,170	25,103	152.9	[2]118.5
1956	166,600	25,449	152.8	[2]121.2
1957	168,880	26,064	154.3	[2]122.9
1958	171,640	25,384	147.9	[2]120.2
1959	174,620	25,645	146.9	[2]120.2
1960	179,275	26,272	146.5	118.0
1961	182,240	26,590	145.9	117.2
1962	186,692	26,213	140.4	112.2
1963	191,704	24,952	130.2	108.5
1964	196,541	23,844	121.3	105.0
1965	201,509	22,261	110.5	96.6
1966	206,376	22,601	109.5	91.3
1967	211,815	22,948	108.3	87.6
1968	217,662	23,193	106.6	85.7
1969	223,579	24,232	108.4	86.5
1970	229,839	26,969	117.3	87.9
1971	236,386	27,552	116.6	81.8
1972	243,135	26,911	110.7	73.4
1973	249,869	27,978	112.0	69.2
1974	255,883	29,946	117.0	68.4
1975	261,024	30,667	117.5	66.7
1976	279,050	35,310	126.5	65.8
1977	293,380	37,956	129.4	67.4
1978	304,728	38,811	127.4	66.4

[1] Per 1,000 women 15-44 years of age.

[2] Adjusted for under-registration.

TABLE 10

BIRTHS THAT OCCURRED IN UTAH AND TO UTAH RESIDENTS OUTSIDE UTAH, 1978

District and County	Births by County of Mother's Residence			Births by County of Occurrence		
	Total	Occurring in Utah	Occurring Outside of Utah	Total	Mother a Utah Resident	Mother Not a Utah Resident
Total	38,811	38,547	264	39,758	38,547	1,211
District 1	2,527	2,495	32	2,667	2,412	255
Box Elder	808	804	4	686	667	19
Cache	1,670	1,653	17	1,980	1,744	236
Rich	49	38	11	1	1	. .
District 2N	7,310	7,292	18	7,382	7,213	169
Davis	3,681	3,678	3	2,610	2,577	33
Morgan	108	108	. .	1	1	. .
Weber	3,521	3,506	15	4,771	4,635	136
District 2S	15,845	15,810	35	16,502	16,310	192
Salt Lake	15,241	15,209	32	16,282	16,090	192
Tooele	604	601	3	220	220	. .
District 3	7,993	7,950	43	8,011	7,912	99
Summit	223	222	1	56	49	7
Utah	7,548	7,506	42	7,726	7,640	86
Wasatch	222	222	. .	229	223	6
District 4	1,234	1,229	5	1,093	1,082	11
Juab	137	173	. .	94	92	2
Millard	226	224	2	190	186	4
Piute	31	31	. .	. .	. .	. .
Sanpete	371	370	1	366	365	1
Sevier	424	423	1	443	439	4
Wayne	45	44	1	. .	. .	. .
District 5	1,433	1,423	10	1,843	1,480	363
Beaver	99	99	. .	112	106	6
Garfield	81	78	3	80	80	. .
Iron	509	507	2	587	536	51
Kane	92	90	2	95	78	17
Washington	652	649	3	969	680	289
District 6	993	978	15	902	881	21
Daggett	16	9	7	. .	. .	. .
Duchesne	389	387	2	390	386	4
Uintah	588	582	6	512	495	17
District 7	1,476	1,370	106	1,358	1,257	101
Carbon	563	561	2	753	750	3
Emery	332	330	2	7	7	. .
Grand	205	195	10	251	242	9
San Juan	376	284	92	347	258	89

infants was 12.9.[1] Although the Utah percentage was lower than the national figure for black infants, the percentage in Utah may be unreliable due to the small number of black infants born in the State.

TABLE 11

PERCENTAGE LOW-BIRTH-WEIGHT INFANTS OF TOTAL BIRTHS BY RACE AND SEX: UTAH, 1978

Race	Total	Male	Female
Total	5.6	5.1	6.2
White	5.6	5.1	6.2
Black	7.3	4.5	10.2
Indian	5.9	5.2	6.8
Other nonwhite	4.9	5.2	4.6

For each group except "other nonwhite," a smaller percentage of males were low-birth-weight than females. For the entire State, 5.1 percent of all male and 6.2 percent of all female infants born in 1978 weighed 2,500 grams or less at birth.

Thirty-seven percent of births were to women ages 20-24, and over; 29 percent occurred to females ages 25-29 (Reference Table A-10).

Table 12 shows the mean age of all mothers at first live birth as 21.7 with "other nonwhite" as having the oldest mean age (23.5). "Other nonwhites" had the oldest mean ages until five or more live births. Indians had the youngest mean ages until six or more live births. No conclusions can be drawn for more than four live births, due to the small number of occurrences, particularly for races other than white. The mean age of all mothers for all births was 25.4 years.

The average interval between births for all mothers appears to be about 2.5 years. The interval for each race category appears to be the same as that for all mothers.

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[1] Monthly Vital Statistics Report, Advance Report Final Natality Statistics, 1978, HRA (76-1120), Vol. 28, No. 1, (National Center for Health Statistics, Hyattsville, Md. 20852) April 28, 1980.

TABLE 12

MEAN AGE OF MOTHER BY RACE AND NUMBER OF THIS BIRTH UTAH, 1978

Race	Mean Age of Mother by Number of This Birth					
	1	2	3	4	5	6+
All races	21.7	24.1	26.6	29.0	31.2	34.4
White	21.7	24.1	26.6	29.0	31.2	34.4
Black	21.2	23.6	25.2	27.8	29.9	35.0
Indian	20.2	22.7	25.1	27.3	28.6	33.4
Other nonwhite	23.5	26.0	28.4	29.7	30.2	32.7

Birth order by district varied considerably as indicated in Table 13. The percentage of first- and second-order births nationally (73.9 percent) exceeded the percentage of these births for each of the multicounty districts. The state-wide total was 58.2 percent. The percentage of births for each birth order, three and above, was greater for Utahns state-wide and in each district than for the United States. Utah women had 169 percent more fifth-order births than nationally--6.2 percent compared with 2.3 percent; and 204 percent more sixth- or higher-order births--6.7 percent compared with 2.2 percent nationally.

TABLE 13

PERCENTAGE OF BIRTHS BY REPORTED BIRTH ORDER AND DISTRICT UTAH AND THE UNITED STATES, 1978

District of Mother's Residence	Total	Percentage of Births This Birth Order					
		1st	2nd	3rd	4th	5th	6th+
Total	100.0	32.6	25.6	17.7	11.2	6.2	6.7
District 1	100.0	33.5	24.4	17.0	11.5	6.3	7.3
District 2N	100.0	31.4	26.6	17.8	11.5	6.3	6.4
District 2S	100.0	33.4	26.6	18.4	10.6	5.7	5.3
District 3	100.0	35.0	23.5	15.4	11.1	6.6	8.4
District 4	100.0	26.2	23.9	18.1	14.1	8.5	9.2
District 5	100.0	26.0	24.5	18.1	12.7	7.8	11.0
District 6	100.0	28.7	24.5	20.5	11.2	6.9	8.2
District 7	100.0	29.2	22.6	20.2	12.1	5.1	5.9
United States[1] [2]	100.0	42.0	31.9	14.9	5.7	2.3	2.2

[1] Ibid. [2] 0.9 percent not stated.

The greatest variation between districts was demonstrated in first-order births. The percentages varied from 26.0 in District 5 to 35.0 in District 3. No district first-order-birth percentage was as high as the percentage for first-order births in the United States. District 5 recorded the highest percentage of sixth- and higher-order births (11.0 percent); District 2S, the lowest (about 5 percent). For the State, 25 percent of the births were second-order, and over 6 percent were sixth-order and higher.

The large percentage of sixth- or higher-order births in District 5 may be influenced by a community of traditional Latter Day Saint Church members who are encouraged to have large families.

Table 14 shows how the "percentage this birth order" differed for each race. Blacks had the highest percentage of first-order births and Indians had the highest percentage of high-order (6+) births. In only two districts, Uintah Basin and Southeastern, did white infants account for less than 95 percent of the births. In those two districts Indians accounted for 7.5 and 11.9 percent, respectively. The district with the largest percentage of black births (1.2 percent) was Wasatch Front North. The districts with the largest proportion of "other nonwhite" births (1.9 percent) was Wasatch Front South. The total number of nonwhite births was only 1,324; therefore, caution should be used in interpreting these statistics which are based on such small numbers.

TABLE 14
"PERCENTAGE THIS BIRTH ORDER" BY RACE FOR RESIDENTS
UTAH, 1978

Race of Mother	Total	Percentage This Reported Birth Order					
		First	Second	Third	Fourth	Fifth	Sixth and Higher
Total	100.0	32.6	25.6	17.7	11.2	6.2	6.7
White	100.0	32.5	25.5	17.7	11.3	6.3	6.7
Black	100.0	42.6	32.4	11.6	6.5	6.0	0.9
Indian	100.0	31.4	27.4	17.0	8.7	5.2	10.3
Other nonwhite	100.0	38.1	27.7	16.8	8.9	3.8	4.6

In Utah, low-birth-weight infants (2,500 grams or less) comprised 5.6 percent of the live births to residents. Nationally, 7.1 percent of all live births were low-birth-weight in 1978.[1]

Table 15 gives the percentage of low-birth-weight infants for each of the multicounty districts for each year since 1970. Although the state-wide percentage of low-birth-weight infants decreased in 1977, it increased again in 1978 and there was some variation between districts.

TABLE 15

PERCENTAGE OF LOW-BIRTH-WEIGHT INFANTS BY DISTRICT AND YEAR: UTAH, 1970-1978

District	1970	1971	1972	1973	1974	1975	1976	1977	1978
State	6.5	6.2	6.0	5.5	5.3	5.3	5.4	5.2	5.6
Bear River (1L	4.7	5.7	6.1	4.6	5.6	4.9	5.8	4.5	6.3
Wasatch Front North (2N)	6.9	6.3	6.6	6.4	5.7	5.4	5.1	5.5	5.8
Wasatch Front South (2S)	7.1	6.7	6.2	6.1	5.7	5.7	6.0	5.5	5.8
Mountainland (3)	5.5	5.6	4.7	4.1	4.3	4.6	4.6	4.3	4.9
Six County (4)	6.7	5.6	4.8	5.3	4.5	5.6	4.7	5.2	5.6
Five County (5)	5.3	5.4	5.5	4.8	4.2	5.0	3.6	4.0	5.1
Uintah Basin (6)	6.1	3.6	6.6	5.1	3.6	4.2	6.2	6.0	6.0
Southeastern (7)	7.0	5.3	6.9	5.1	7.6	6.1	5.5	7.7	6.9

Maternal age is another variable which contributes to infant birth weight. Eight and five-tenths percent of the infants born to mothers 19 years of age or younger in 1978 were of low birth weight (Table 16), while 5.7 percent born to mothers 35 years of age or older also were of low birth weight. The percentage of low-birth-weight infants born to mothers in the age groups 25-29 and 30-34 were less than any other age groups.

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[1] Advanced Report Final Natality Statistics, 1977 from Monthly Vital Statistics Report, (HRA) 76 1120, Vol. 28, No. 1 (National Center for Health Statistics, Hyattsville, Md. 20852), April 28, 1980.

TABLE 16

LIVE BIRTHS BY BIRTH WEIGHT AND MOTHER'S AGE: UTAH, 1978

Age of Mother	Total Live Births		Live Births by Birth Weight			
			Low Birth Weight		More than 2,500 Grams	
	Number	Percent	Number	Percent	Number	Percent
Total[1]	38,723	100.0	2,189	5.6	36,569	94.4
19 years or younger	4,407	100.0	373	8.5	4,038	91.6
20-24 years	14,392	100.0	810	5.6	13,593	94.4
25-29 years	11,538	100.0	574	5.0	10,977	95.0
30-34 years	5,963	100.0	288	4.8	5,677	95.2
35 years or older	2,423	100.0	144	5.9	2,284	94.1

[1] Does not include "not stated" ages or birth weights.

Another factor which contributes to low-birth-weight outcomes is the number of weeks gestation. In 1978 there were much lower percentages of low-birth-weight infants among those born after 37 weeks gestation than those born before 38 weeks gestation (Table 17).

TABLE 17

LOW-BIRTH-WEIGHT INFANTS BY WEEKS GESTATION: UTAH, 1978

	Total	Number and Percentage of Infants by Weeks Gestation								
		Under 20	20-27	28-35	36-37	38-39	40-41	42-43	44+	Not Stated
Low-birth-weight infants[1]	2,189	. .	92	607	398	427	323	123	85	134
Percentage of total births	5.6	. .	100.0	57.4	20.3	4.8	2.0	1.9	2.9	9.1

[1] Birth weights not stated are not included.

Three measures of the adequacy of prenatal care a mother receives are "mean number of prenatal visits," "percentage of mothers receiving less than five prenatal visits," and "percentage of mothers who began their prenatal care after the first trimester." Table 18 shows these

TABLE 18

SUMMARY OF PRENATAL CARE RECEIVED BY AGE OF MOTHER, RACE OF CHILD, AND DISTRICT OF MOTHER'S RESIDENCE: UTAH, 1978

	Mean Number of Prenatal Visits	Percentage of Mothers Receiving Under 5 Prenatal Visits	Percentage of Mothers Who Began Care After First Trimester
Age of mother			
Total	10.5	6.5	18.3
Under 15	8.1	32.4	41.2
15-19	9.9	11.5	31.5
20-24	10.6	6.0	17.3
25-29	10.7	5.4	15.5
30-34	10.7	5.6	15.1
35-39	10.5	6.9	19.1
40-44	10.0	9.4	26.0
45+	10.8	0.0	19.0
Race of child			
Total	10.5	6.5	18.3
White	10.6	6.0	17.7
Black	9.9	11.8	33.6
Indian	7.8	33.1	42.4
Other nonwhite	9.8	13.6	31.1
District of mother's residence			
State	10.5	6.5	18.3
Bear River (1)	10.8	4.7	17.0
Wasatch Front North (2N)	10.8	5.2	14.7
Wasatch Front South (2S)	10.7	6.7	20.9
Mountainland (3)	10.6	5.0	13.4
Six County (4)	10.8	5.6	18.6
Five County (5)	9.8	8.8	21.7
Uintah Basin (6)	9.9	11.8	26.5
Southeastern (7)	8.3	17.2	28.4

variables by age of mother, race of child, and district of mother's residence. For each of these the "not stated" total has been deleted before computing the mean number of percentage.

Prenatal care statistics varied considerably by race of child, age, and district of mother's residence. Based on the previously discussed variables, mothers of white infants received the "best" prenatal care. Mothers of Indian babies received the "worst" prenatal care.

Residents of the Wasatch Front North and Mountainland Districts received the "best" prenatal care. Residents of the Southeastern District received the "worst" care.

The 39 females under 15 years of age waited longer before beginning their prenatal care and had fewer prenatal visits than any other age group. Seventy-one percent of births to this group were out of wedlock. Women ages 45+ had the highest mean number of prenatal visits and the lowest percentage receiving less than five prenatal visits. Women ages 30-34 had the lowest percentage starting care after the first trimester.

The mean number of prenatal visits in Utah was 10.5 compared with 11.0 prenatal visits for the 47 states reporting nationally (including Utah).

Conditions noted at birth can give an indication of the well-being of the newborn. Unfavorable conditions, such as complications of pregnancy or delivery, birth injury, and congenital malformations, decrease the probability of survival. Tables 19, 20, and 21 compare the unfavorable conditions noted at birth with age of mother, weight at birth, and when prenatal care began. These factors, in addition to the weeks gestation previously discussed, appear to have the most impact on the number of unfavorable conditions noted at birth. Table 19 gives age of mother and the percentage of births in which at least one unfavorable condition was noted at birth.

Mothers age 45 and over have the largest percentage of unfavorable outcomes at birth. The lowest percentage occurs in the 25-29 age group.

Table 20 provides the number of unfavorable conditions noted by the birth weight of the newborn. Those infants whose birth weight is 2,500 grams or less experience unfavorable conditions at least twice as often as those infants who weigh over 2,500 grams.

Table 21 shows the number of unfavorable conditions noted by the trimester in which prenatal care began.

TABLE 19

UNFAVORABLE CONDITIONS AT BIRTH BY AGE OF MOTHER: UTAH, 1978

At Least One Unfavorable Condition	Age of Mother							
	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Number	7	902	2,617	2,079	1,146	440	98	6
Percentage of total live births	17.9	20.6	18.1	18.0	19.2	21.8	25.3	27.3

TABLE 20

UNFAVORABLE CONDITIONS AT BIRTH BY BIRTH WEIGHT: UTAH, 1978

At Least One Unfavorable Condition	Birth Weight in Grams								
	1000 or Less	1001-1500	1501-2000	2001-2500	2501-3000	3001-3500	3501-4000	4001-4500	Over 4500
Number	92	153	329	747	1,436	2,238	1,606	520	125
Percentage of total live births	91.1	82.3	80.8	50.0	22.8	15.0	14.1	15.8	20.9

TABLE 21

UNFAVORABLE CONDITIONS AT BIRTH BY TRIMESTER CARE BEGAN: UTAH, 1978

At Least One Unfavorable Condition	Trimester Care Began				
	No Care	First	Second	Third	Not Stated
Number	24	5,806	1,112	159	194
Percentage of total live births	18.3	18.7	18.4	20.6	23.6

The infants whose mothers wait until the third trimester experience a higher percentage of unfavorable conditions at birth than those whose mothers began care in the first trimester.

Nationally, the relationship between education of parents and the number of children they had was clear--the higher the education the fewer the children. The mean parity for mothers over age 19 compared to the mothers' education follows: less than 4 years of high school, 3.05; 4 years of high school, 2.12; and 1 or more years of college, 1.88 children.[1] Table 22 gives the percentage of "this birth order" by education of mothers over age 19. Only mothers over 19 were selected in order to provide all mothers the opportunity to have acquired more than 12 years of education. The Utah experience is similar to the United States in that those mothers with less than high school education have the highest percentage of fifth- or higher order births. The mothers with high school and more-than-high school educations have about the same percentages of fourth-and-higher order births, with the more-than-high school educated mothers being slightly higher. If the average number of children per mother in Utah is calculated for each level of education, less-than-high school educated have 3.23 children per mother, high school educated have 2.44 children per mother and more-than-high school educated have 2.73 children. These ratios for Utah mothers show the same pattern as the United States although the more educated mothers' ratios are somewhat higher.

TABLE 22

"PERCENTAGE THIS BIRTH ORDER" BY EDUCATION OF MOTHERS OVER AGE 19: UTAH, 1978

Birth Order	Total	Less than High School	High School	More than High School
Total	100.0	100.0	100.0	100.0
First	26.3	13.9	24.5	29.3
Second	26.6	29.5	28.6	24.8
Third	19.8	25.0	20.8	18.3
Fourth	12.6	13.9	12.5	12.6
Fifth and higher	14.7	17.7	13.6	15.0

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[1] Calculated by the Bureau of Health Statistics from data in the Vital Statistics of the United States, 1975, Vol. 1: Natality, National Center for Health Statistics, Hyattsville, Md. pages 1-172. Due to data limitations, the mean parities calculated probably understate the actual mean parities.

Less than 7 percent of Utah fathers had received less than a high school education, 28 percent were high school graduates, and 59 percent had completed one or more years of college. Among Utah mothers, 13 percent had not completed high school, 38 percent were high school graduates, and 48 percent completed one or more years of college.

Nationally, 47 states reported information about the education of the parents. Sixteen percent of fathers had not completed high school, 34 percent had received high school diplomas, and 34 percent had completed one or more years of post high school education. Among mothers, the respective figures were 26 percent, 42 percent, and 30 percent.[1]

There were 2,160 out-of-wedlock births to Utah residents reported in 1978 (Table 23). This was 5.6 percent of all live births to resident females in the State. These out-of-wedlock births represent an increase of 16.7 percent over the 1977 rate. Table 23 summarizes out-of-wedlock births in Utah from 1960 to 1978 by age of mother. In the 39 states reporting, nationally, 16.3 percent of the births were out of wedlock.

Over 47 percent of the out-of-wedlock births in Utah were to females 19 years or younger. The mean age of mothers for all out-of-wedlock births in the State was 20.7 years.

Figure 5 summarizes the percentage of out-of-wedlock births to total births by district. The districts above the state percentage (5.6 percent out-of-wedlock births) were 2 North, 2 South, and 7; with 6.6, 7.1, and 6.9 percent, respectively. Figure 6 provides out-of-wedlock births by age of mother.

Twenty-three percent (1,025) of all births to females less than 19 years of age were born out of wedlock. This percentage dropped dramatically for females over 20 years of age; i.e., 5.1 percent for females 20-24, 2.0 percent for females 25-39, and 1 percent for those 40 years and older. The 71.8 percent out-of-wedlock births to females less than 15 years of age was based on a total of 39 of these young women who gave birth in 1978.

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[1] Final Natality Statistics from Monthly Vital Statistics Report (PHS) 77-1120 Vol. 28, No. 1 (National Center for Health Statistics, Hyattsville, Md. 20852) April 28, 1980.

TABLE 23

OUT-OF-WEDLOCK BIRTHS BY AGE OF MOTHER: UTAH, 1960-1978

Year	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Unknown
1978	2,160	28	997	732	274	89	30	9	1	. .
1977	1,806	30	880	584	211	73	22	2	1	3
1976	1,493	20	735	479	168	65	21	4	. .	1
1975	1,321	32	642	439	136	48	18	3	. .	3
1974	1,138	16	564	380	114	40	18	3	. .	3
1973	1,216	23	638	381	112	40	15	6	. .	1
1972	1,136	23	574	379	83	42	26	5	2	2
1971	1,058	11	500	382	105	38	19	3	. .	. .
1970	1,215	14	588	441	100	40	20	5	. .	7
1969	993	14	413	407	103	36	12	3	1	4
1968	933	7	394	347	106	36	29	7	2	5
1967	791	11	347	280	86	38	18	7	. .	4
1966	742	4	331	281	70	31	18	6	. .	1
1965	676	3	279	246	86	35	16	8	1	2
1964	585	4	255	207	59	35	14	4	. .	7
1963	465	8	169	165	63	34	15	10	. .	1
1962	474	4	167	163	67	36	20	10	1	6
1961	456	5	178	161	58	31	11	6	. .	6
1960	406	8	157	133	56	21	21	8	. .	2

FIGURE 5. PERCENTAGE OF BIRTHS OUT OF WEDLOCK IN EACH DISTRICT: UTAH, 1978

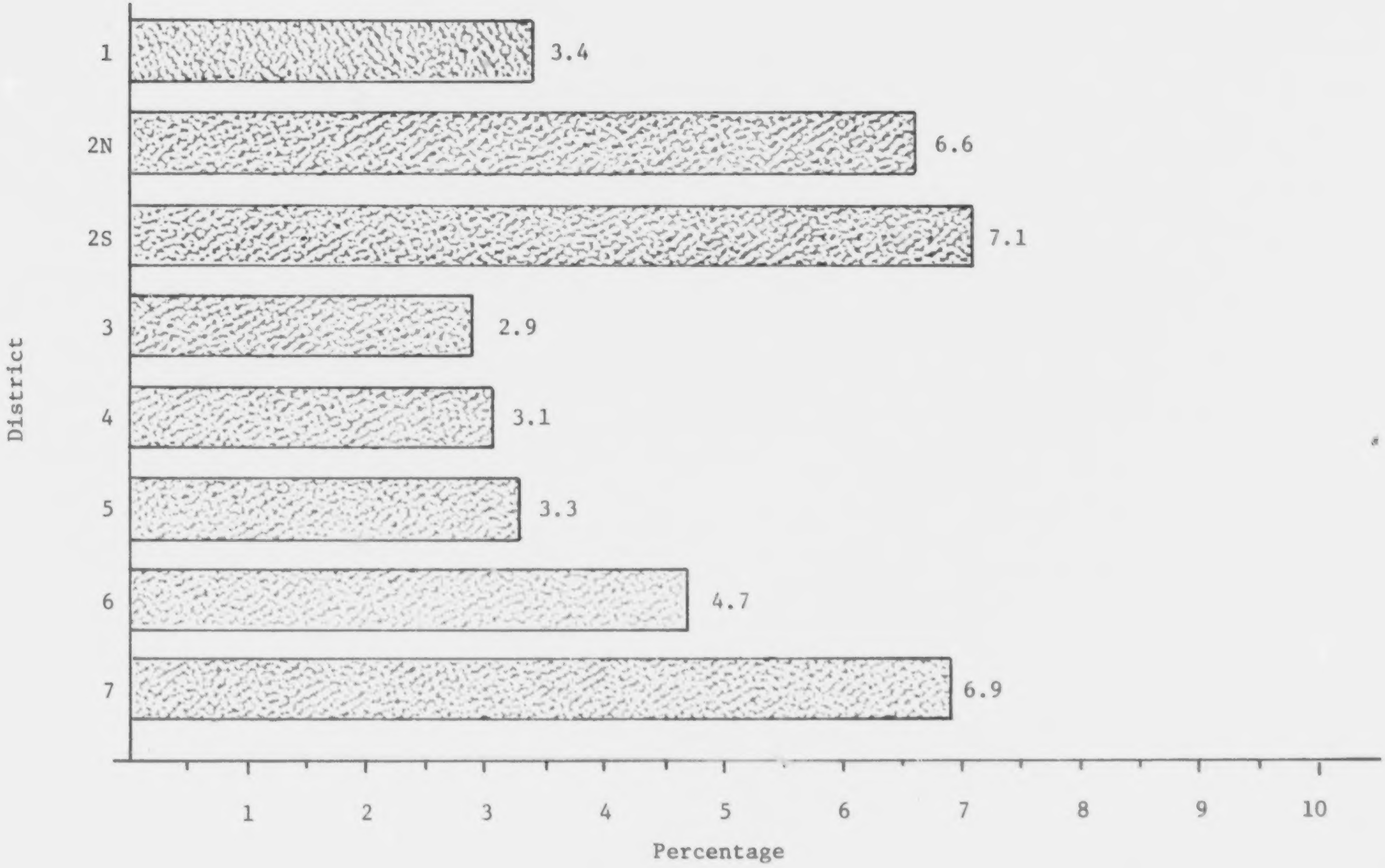
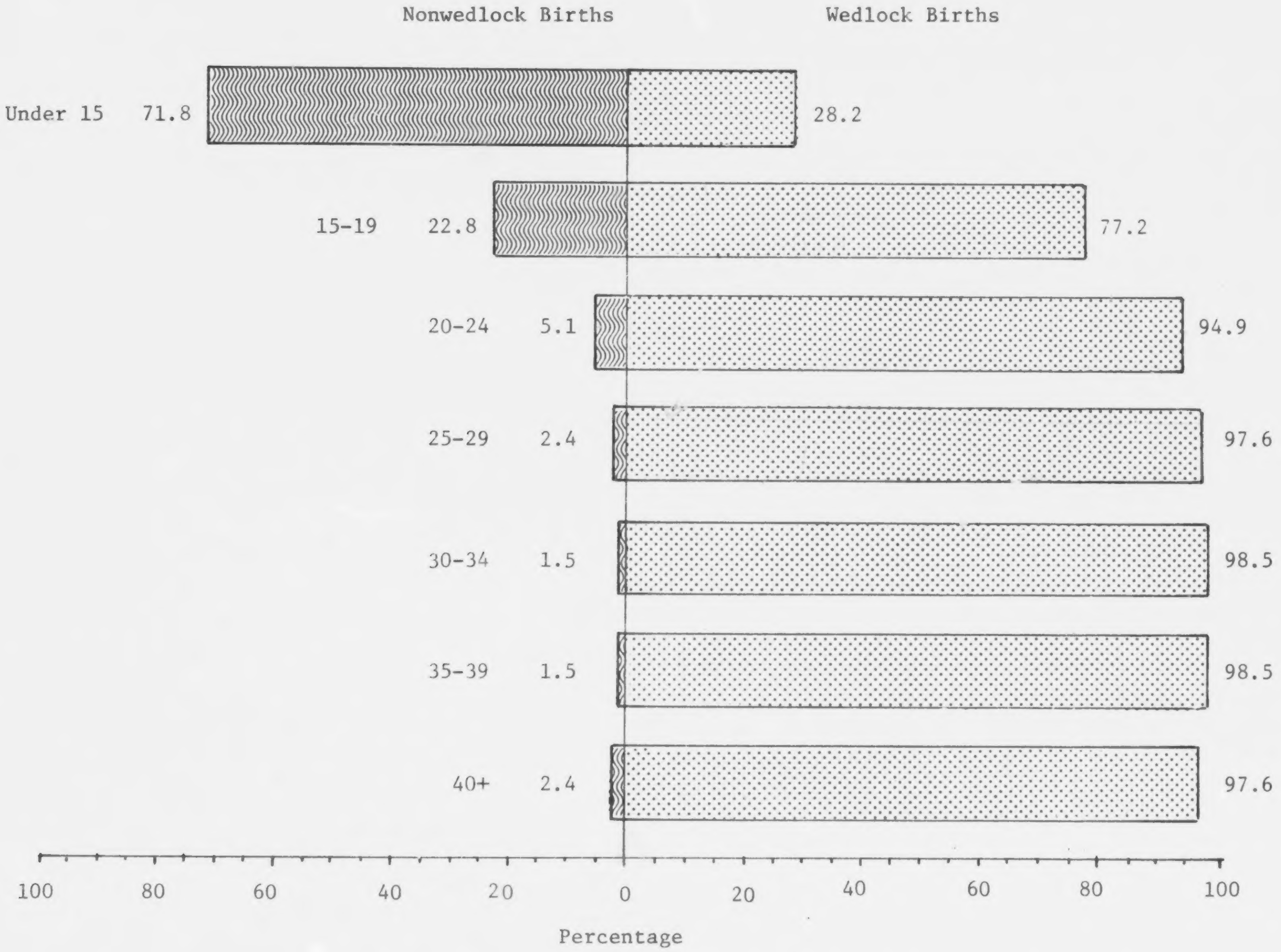


FIGURE 6. WEDLOCK VERSUS NONWEDLOCK BIRTHS BY AGE GROUP OF MOTHER: UTAH, 1978



Two new items have been added to the birth certificate for 1978. They are "parents of Spanish origin" and "APGAR score." The APGAR score is a summary measure used to evaluate the newborn infant's overall condition at birth. The score is a composite evaluation of the infant's heart rate, respiratory effort, muscle tone, reflex irritability, and color. Each item is scored 0, 1, or 2. The sum of the five items is the overall score. The score can range from 0 to 10, with 10 being optimum. Table A-24 is a tabulation of 5-minute APGAR scores by birth weight of the infant. The very high birth weights (4,500 grams plus) and the very low birth weights (less than 2,000 grams) have the most low APGAR scores. Infants in the 3,001-3,500 grams weight range have the highest percentage of "10" scores in any weight class.

Spanish Origin

Following are tables comparing births by age of mother, number of prenatal visits, month prenatal care began, and out-of-wedlock births between mothers of Spanish origin; and the same items for all mothers of the State.

TABLE 24

LIVE BIRTHS BY AGE OF MOTHER WHERE MOTHER IS OF SPANISH ORIGIN: UTAH, 1978

	Total	Live Births by Age of Mother							
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Spanish origin mothers	1,364	7	302	476	360	159	53	7	. .
State	38,811	39	4,377	14,420	11,575	5,969	2,021	387	22

Total includes 1 "age not stated."

It appears that mothers of Spanish origin have their children at a younger age than all mothers in the State (Table 24). It also appears that mothers of Spanish origin have fewer prenatal visits than all mothers in the State (Table 25).

TABLE 25

NUMBER OF PRENATAL VISITS WHERE MOTHER IS OF SPANISH ORIGIN: UTAH, 1978

	Total	Births by Number of Visits							
		No Care	1-5	6-9	10-14	15-18	19-27	27+	Not Stated
Spanish origin mothers	1,364	13	176	400	666	45	8	1	55
State	38,811	169	2,287	9,711	23,680	1,776	270	35	883

It appears that mothers of Spanish origin have a lower percentage of care commencing in the first trimester of pregnancy (Table 26).

TABLE 26

LIVE BIRTHS BY MONTH PRENATAL CARE BEGAN WHERE MOTHER IS OF SPANISH ORIGIN: UTAH, 1978

	Total	Live Births by Month Prenatal Care Began										
		No Care	1	2	3	4	5	6	7	8	9	Not Stated
Spanish origin mothers	1,364	6	93	397	383	188	100	55	47	29	10	56
State	38,811	131	2,404	17,100	11,549	3,798	1,528	709	425	242	103	822

It appears that Spanish origin mothers of out-of-wedlock births are older than are mothers of out-of-wedlock births in the State (Table 27).

TABLE 27

OUT-OF-WEDLOCK BIRTHS BY AGE OF MOTHER WHERE MOTHER IS OF SPANISH ORIGIN: UTAH, 1978

	Total	Out-of-Wedlock Births by Age of Mother							
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Spanish origin mothers	322	6	143	98	46	17	9	3	. .
State	2,160	28	997	732	274	89	30	9	1

In general, the amount of care received as measured by prenatal visits and month prenatal care began is less for births where mothers are of Spanish origin than that received by all mothers in the State.

DEATHS

DEATH SUMMARY

The 7,871 deaths of Utah residents in 1978 represent an increase of 259 or 3.4 percent more than the 1977 total. The mortality rate of 6.0 per 1,000 population is the same as the 1977 rate of 6.0.

In Utah, deaths are classified under four categories: "preventable," "violent," "chronic and old age," and "all others."

"Chronic and old age" deaths are usually associated with older age groups. The age-specific rates for these causes increase with advanced years. Examples of this classification of death are cancer, diatetes, and diseases of the heart.

"Preventable causes" are those which result in high mortality rates in most underdeveloped areas, and which tend to decrease rapidly with technological advances. Examples of this classification are infectious and parasitic diseases, respiratory, certain diseases of early infancy, and "ill-defined conditions." This latter classification tends to decline rapidly with advances in scientific knowledge and improvements in medical care.

"Violent causes" include deaths due to alcoholism, accident, suicide, homicide, and those deaths classified as "unable to determine whether purposely or accidentally inflicted."

"All other causes" include the few remaining causes of death not otherwise classified.

In 1974 two changes in these classifications were made. Deaths under age 55 from diabetes mellitus (ICDA 250) and acute cardiac arrest (ICDA 427.2) were classified as "preventable." Deaths to those ages 55 years and older from these causes continued to be classified as "chronic and old age." The effect of these changes was to reduce the total number of deaths classified as "chronic and old age," and increase the total deaths from "preventable" causes.

Beginning with the 1976 report another change was made. Deaths from respiratory diseases at age 65 and over have been reclassified from the "preventable" to the "chronic and old age" category. Its effect is the reverse of the 1974 change.

Table 28 shows the crude rates for each major classification during the 1970-1978 period.

TABLE 28

DEATH RATES BY MAJOR CLASSIFICATION: UTAH, 1970-1977

Class of Cause	Death Rates by Year								
	1970	1971	1972	1973	1974	1975	1976	1977	1978
Chronic and old age	449.8	468.0	452.6	461.9	450.4	441.1	439.4	432.0	442.6
Preventable	102.5	84.7	81.6	79.9	71.3	77.2	70.0	63.9	68.0
Violent	87.2	84.0	92.2	91.2	78.8	80.4	74.2	76.6	82.7

Two classifications appear to have a trend; they are "chronic and old age" and "preventable." "Preventable" has decreased from 102.5 per 100,000 population in 1970 to 68.0 per 100,000 population in 1978. The decline has been constant except for the years, 1975 and 1977. "Chronic and old age" had decreased since 1973, but rose sharply in 1978.

Tables 29, 30, and 31 give the chronic and old age, preventable, and violent deaths by county for the years, 1970 to 1978. These tables have been restated to reflect the 1976 classifications, and therefore will not agree with the figures reported in previous editions.

Table 32 shows these classifications by place where the death occurred and by race and sex of decedent. Seventy-two percent of all chronic and old age deaths, as well as 72 percent of all preventable causes, occurred either in a hospital or nursing home. Only 39 percent of the violent causes occurred in these two places. The distribution of deaths by race and sex is similar to the total distribution with the exception of Indians. About one-fourth (28 percent) of all Indian deaths were due to chronic and old age causes; for Indian males it was 26 percent. The largest number of Indian deaths was in the violent class of causes. Table A-42 gives the number of deaths for each class by county and district in 1978. The percentage of deaths in each classification varies considerably for each district. The graph in Figure 7 illustrates these differences for each district and the State. Table A-43 shows the age and sex distribution

TABLE 29

CHRONIC, OLD AGE DEATHS BY DISTRICT AND COUNTY OF RESIDENCE
UTAH, 1970-1978

District and County	Deaths by Year								
	1970	1971	1972	1973	1974	1975	1976	1977	1978
Total	4,795	5,125	5,105	5,312	5,310	5,307	5,413	5,498	5,621
District 1	325	368	344	364	411	377	399	392	381
Box Elder	[illegible]	136	137	147	160	155	148	157	148
Cache	193	217	192	209	241	210	234	228	228
Rich	7	15	15	8	10	12	17	7	5
District 2N	939	888	885	960	1,006	1,006	985	1,008	1,078
Davis	240	262	236	246	266	273	314	346	335
Morgan	15	15	14	27	19	17	14	18	22
Weber	684	611	635	687	721	716	657	644	721
District 2S	2,195	2,432	2,437	2,484	2,388	2,467	2,411	2,526	2,528
Salt Lake	2,109	2,351	2,337	2,380	2,291	2,361	2,328	2,432	2,442
Tooele	86	81	100	104	97	106	83	94	86
District 3	578	613	622	622	657	608	721	691	724
Summit	32	41	39	38	36	41	36	31	31
Utah	502	525	541	543	584	535	648	628	645
Wasatch	44	47	42	41	37	32	37	32	48
District 4	274	317	274	313	300	302	320	272	294
Juab	31	47	37	36	49	30	39	25	33
Millard	51	40	58	49	50	48	64	43	50
Piute	10	8	9	8	11	12	11	6	6
Sanpete	87	123	82	108	100	115	103	96	115
Sevier	81	80	77	102	77	86	91	92	82
Wayne	14	19	11	10	13	11	12	10	8
District 5	198	221	228	234	217	216	266	263	278
Beaver	33	35	24	31	27	28	35	32	29
Garfield	29	28	21	23	14	13	16	21	24
Iron	45	69	79	67	62	67	65	59	73
Kane	15	10	20	18	18	15	18	22	19
Washington	74	81	84	95	96	93	132	129	133
District 6	96	89	95	116	119	95	87	127	108
Daggett	2	5	2	1	2	3	2	. .	3
Duchesne	48	38	47	48	56	34	35	46	51
Uintah	46	46	46	67	61	58	50	81	54
District 7	190	197	220	219	212	236	224	219	230
Carbon	113	110	130	130	131	141	122	135	140
Emery	37	37	47	47	37	44	41	35	43
Grand	20	25	26	23	18	30	33	22	30
San Juan	20	25	17	19	26	21	28	27	17

TABLE 30

PREVENTABLE DEATHS BY DISTRICT AND COUNTY OF RESIDENCE UTAH, 1970-1978

District and County	Deaths by Year								
	1970	1971	1972	1973	1974	1975	1976	1977	1978
Total	1,093	927	921	919	841	929	863	812	864
District 1	50	31	46	54	43	47	46	44	54
Box Elder	23	19	19	23	19	17	20	17	21
Cache	27	11	25	30	24	30	25	26	31
Rich	. .	1	2	1	. .	. .	1	1	2
District 2N	196	195	182	180	160	181	185	160	166
Davis	79	63	68	53	55	62	72	65	69
Morgan	4	2	. .	4	5	3	4	2	1
Weber	113	130	114	123	100	116	109	93	96
District 2S	575	441	419	420	344	382	340	315	344
Salt Lake	555	431	399	402	326	359	326	301	324
Tooele	20	10	20	18	18	23	14	14	20
District 3	128	137	130	133	138	141	142	136	162
Summit	8	4	10	5	2	7	6	6	5
Utah	116	126	116	122	135	132	127	124	151
Wasatch	4	7	4	6	1	2	9	6	6
District 4	40	26	35	43	42	55	31	45	38
Juab	5	10	7	4	7	7	3	7	2
Millard	8	1	6	8	6	18	2	9	8
Piute	1	8	3	3	1	. .	1	1	. .
Sanpete	14	5	10	18	17	20	12	18	15
Sevier	10	1	9	7	10	8	12	10	13
Wayne	2	1	. .	3	1	2	1	. .	. .
District 5	46	40	38	32	50	44	43	28	33
Beaver	5	5	2	7	. .	4	1	2	4
Garfield	3	2	2	2	4	1	2	1	2
Iron	11	6	14	5	5	10	12	13	9
Kane	2	2	2	3	6	5	4	1	3
Washington	25	25	18	15	35	24	24	11	15
District 6	27	18	27	30	25	32	29	38	23
Daggett	. .	1	. .	. .	1	. .	. .	1	. .
Duchesne	15	6	13	10	13	13	13	10	8
Uintah	12	11	14	20	11	19	16	27	15
District 7	31	36	44	27	39	47	47	46	44
Carbon	10	10	18	7	15	20	16	21	15
Emery	5	6	7	3	7	1	4	4	6
Grand	3	11	7	5	4	9	6	8	8
San Juan	13	9	12	12	13	17	21	13	15

TABLE 31

VIOLENT DEATHS BY DISTRICT AND COUNTY OF RESIDENCE UTAH, 1970-1978

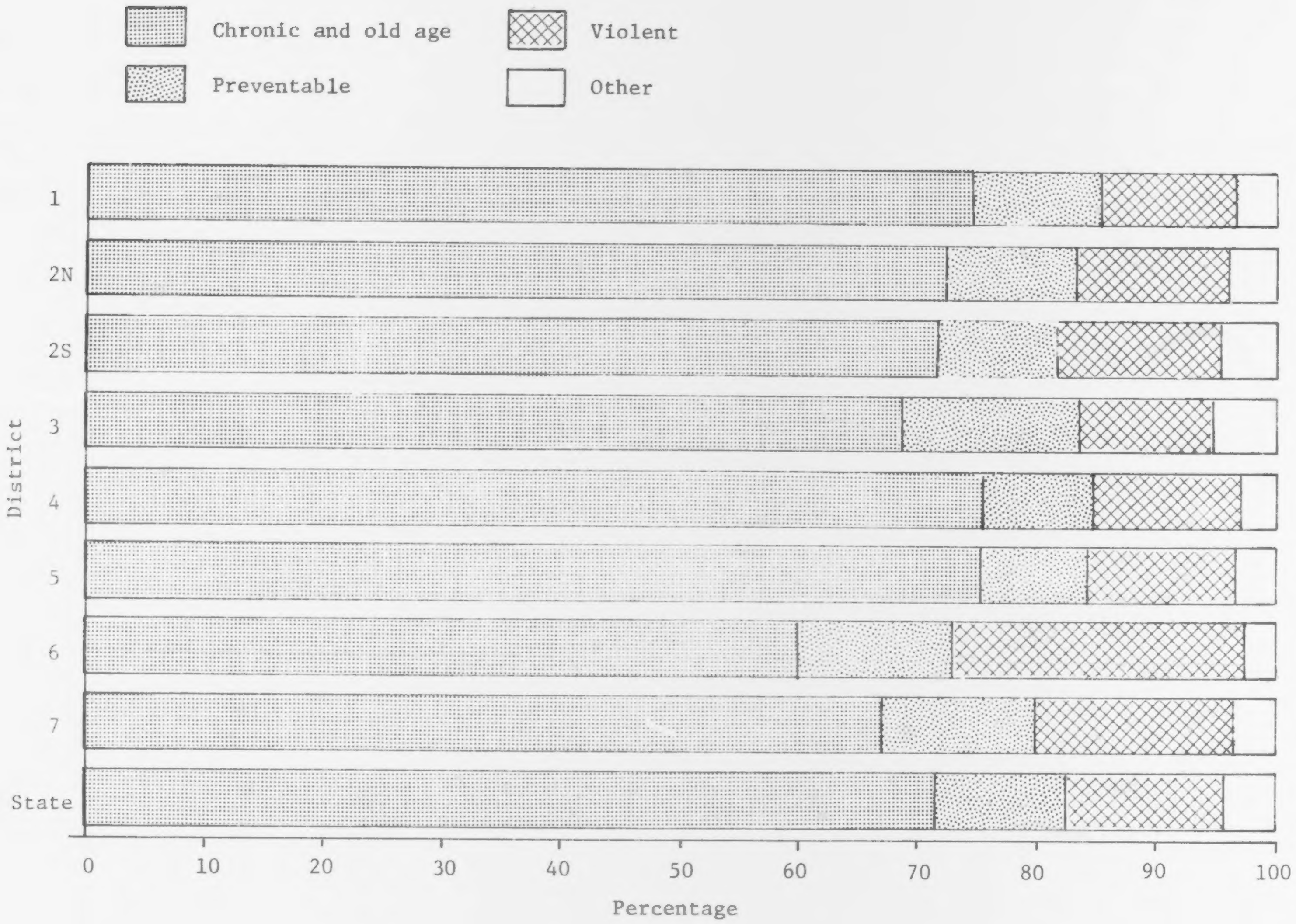
District and County	Deaths by Year								
	1970	1971	1972	1973	1974	1975	1976	1977	1978
Total	930	920	1,040	1,049	929	967	914	973	1,050
District 1	47	45	51	57	50	52	47	51	58
Box Elder	18	21	19	27	19	27	21	21	26
Cache	26	19	26	28	30	24	23	29	30
Rich	3	5	6	2	1	1	3	1	2
District 2N	170	180	190	192	182	192	177	187	188
Davis	58	83	65	73	53	62	59	54	77
Morgan	2	2	3	4	5	3	3	2	5
Weber	110	95	122	115	124	127	115	131	106
District 2S	445	447	483	465	427	433	429	433	486
Salt Lake	413	416	456	438	412	415	401	415	457
Tooele	32	31	27	27	15	18	28	18	29
District 3	84	92	99	120	97	106	98	112	123
Summit	5	4	5	11	9	6	6	9	4
Utah	75	85	87	102	83	94	89	96	115
Wasatch	4	3	7	7	5	6	3	7	4
District 4	31	27	55	49	43	42	25	45	49
Juab	5	5	7	7	6	5	2	4	6
Millard	7	1	11	8	8	6	7	10	11
Piute	1	13	3	3	2	1	2	. .	1
Sanpete	12	4	14	17	11	14	8	22	20
Sevier	6	3	19	13	13	16	5	9	10
Wayne	. .	1	1	1	3	. .	1	. .	1
District 5	55	46	50	43	42	32	39	35	45
Beaver	8	1	9	3	5	6	4	5	3
Garfield	10	4	6	6	3	7	4	2	5
Iron	16	12	13	8	12	8	14	9	13
Kane	3	5	3	4	6	1	2	5	8
Washington	18	24	19	22	16	10	15	14	16
District 6	29	33	51	57	44	49	54	53	44
Daggett	2	. .	. .	1	. .	. .	1	2	2
Duchesne	8	11	17	14	13	17	11	21	16
Uintah	19	22	34	42	31	32	22	30	26
District 7	69	46	61	66	44	61	65	57	57
Carbon	41	26	21	34	15	29	25	21	17
Emery	11	5	8	12	3	9	11	9	14
Grand	3	5	13	8	3	5	9	6	11
San Juan	14	10	19	12	23	18	20	21	15

TABLE 32

DEATHS BY MAJOR CLASSIFICATION, PLACE WHERE DEATH OCCURRED, RACE, AND SEX OF DECEDENT: UTAH, 1978

	Total	Deaths by Major Classification			
		Chronic and Old Age	Preventable	Violent	Residual
Total deaths	7,871	5,621	864	1,050	336
Place Where Death Occurred					
Hospital	4,024	2,914	575	379	156
Home	1,660	1,213	143	227	77
Enroute to hospital	513	265	75	167	6
Nursing home	1,337	1,159	50	32	96
Clinic, doctor's office, maternal home	12	4	4	4	. .
Other location	325	66	17	241	1
Race and Sex of Decedent					
White	7,681	5,535	824	996	326
Male	4,288	2,914	509	698	167
Female	3,393	2,621	315	298	159
Black	56	35	9	11	1
Male	30	19	4	7	. .
Female	26	16	5	4	1
Indian	86	24	25	32	5
Male	61	16	16	26	3
Female	25	8	9	6	2
Other nonwhite	48	27	6	11	4
Male	29	15	4	8	2
Female	19	12	2	3	2

FIGURE 7. PERCENTAGE OF DEATHS BY MAJOR CLASSIFICATION AND DISTRICT: UTAH, 1978



for each class of death. As would be expected, 88 percent of those who died at ages over 75 were classified in the chronic and old age causes of death. Conversely, 73 percent of those who died under age 15 were classified in the preventable causes of death. Sixty-two percent of the deaths to those of ages 25 to 34 were due to violent class causes.

Table 33 compares age-specific mortality rates by sex between Utah and the United States. Although the infant mortality rate is significantly lower in Utah than the United States, the rates are comparable between the ages of 1 year up to age 34. Starting with age 35, the mortality rates nationally are higher than the rates in Utah; in fact, the difference in the rates increases for each age group until age 85 and over. In the age group 85+ the mortality rate nationally is 24 percent less than in Utah, which indicates that Utah residents live longer than residents of most other states.

TABLE 33

AGE-SPECIFIC MORTALITY RATES BY SEX: UTAH AND U.S., 1978

	All Ages[1]	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Utah total	6.0	11.4	0.9	0.3	1.2	1.2	1.9	4.6	11.4	25.1	63.7	182.7
Male	6.8	12.5	1.1	0.4	1.7	1.7	2.6	5.7	15.3	34.0	75.9	200.5
Female	5.2	10.3	0.7	0.3	0.6	0.6	1.2	3.5	7.7	17.8	55.4	172.2
U.S.[2] total	8.8	14.2	0.7	0.3	1.2	1.4	2.4	6.1	14.1	30.2	71.1	146.8
Male	9.9	15.3	0.7	0.4	1.8	1.9	3.2	8.0	18.8	41.9	93.7	170.8
Female	7.8	12.9	0.6	0.2	0.6	0.8	1.6	4.3	9.9	21.2	58.3	135.9

[1] Rate for "all ages" includes ages not stated.

[2] *Annual Summary for the United States, 1978* from *Monthly Vital Statistics Report*, (HRA) 76-1120 Vol. 22, No. 13 (National Center for Health Statistics, Hyattsville, Md. 20852, Aug. 13, 1979).

Figure 8 shows the percentage distribution of deaths for males and females in 10-year age groups in Utah. Males had a higher percentage of deaths than did females for all age groups through age 69. Over 60 percent of all females who died, died at age 70 or older; for males this percentage was over 44 percent.

Figure 9 shows how the age at death in Utah has changed over the years. Deaths of persons under 45 years of age have shown a steady

FIGURE 8. PERCENTAGE DISTRIBUTION OF DEATHS BY AGE AND SEX: UTAH, 1978

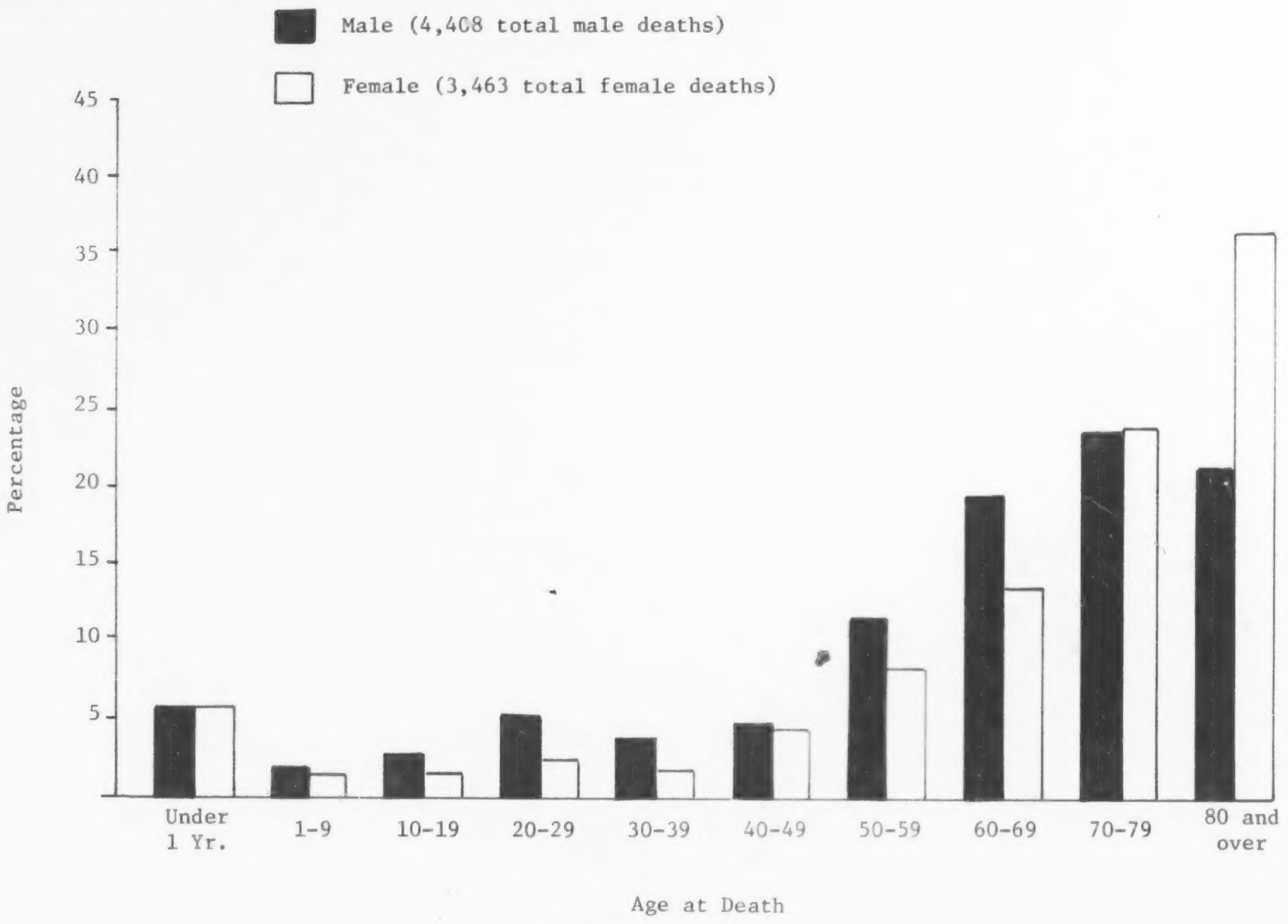
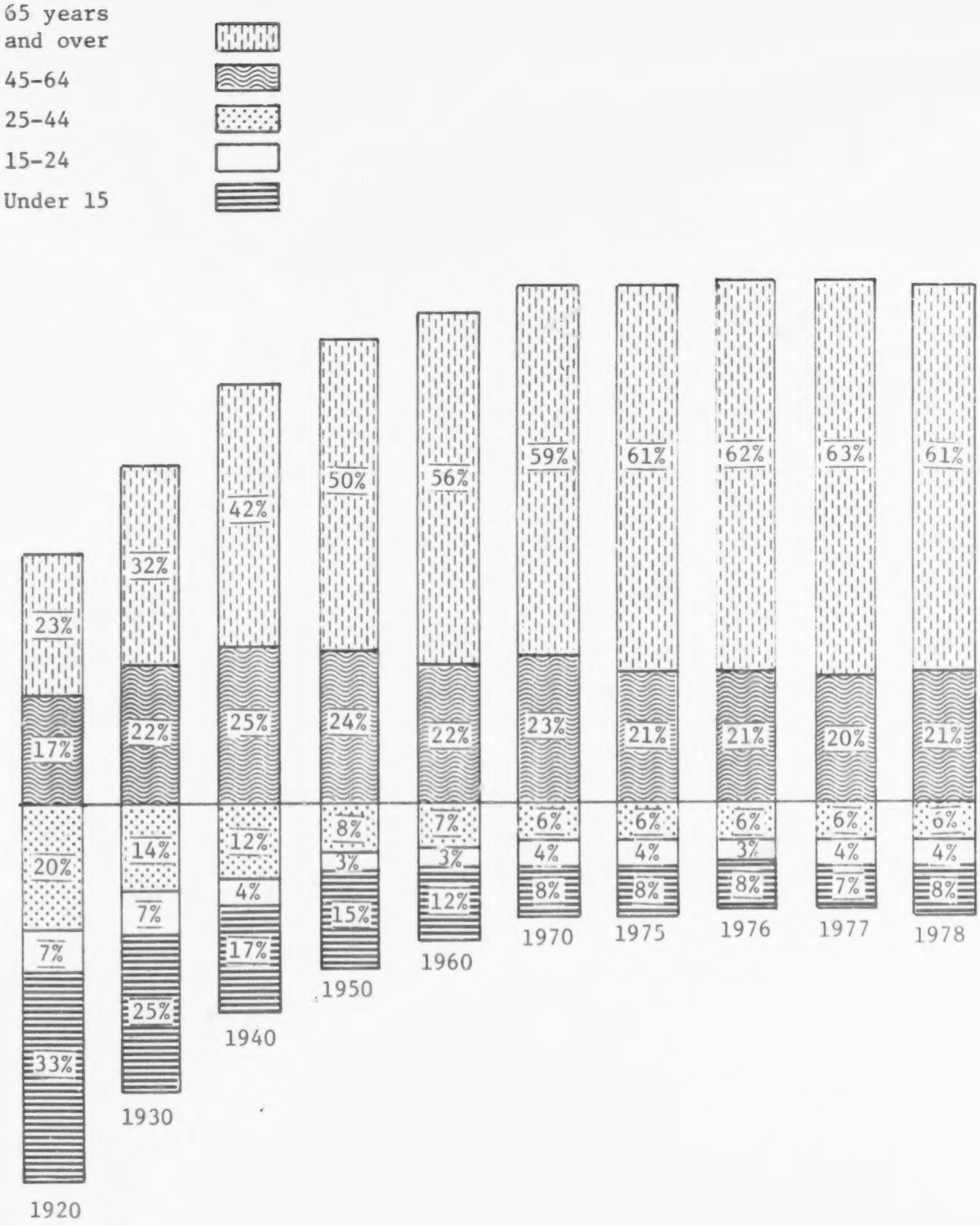


FIGURE 9

TREND OF AGE AT DEATH: UTAH, 1920-1978
(Percentage of Total Deaths)



decline as a proportion of total deaths. Even so, it was not until 1950 that persons 65 years of age and over accounted for 50 percent or more of all deaths. Since 1950, the greatest improvement in the reduction of early deaths has been at under 15 years of age. In 1978, 8 percent of deaths occurred to persons under 15 years of age; in 1950, 15 percent of deaths were in that age group.

Table 34 and Figure 10 give the trend of the 10 leading causes of death for the past 11 and 15 years, respectively.

The order of the first two causes of death has remained unchanged since 1968. "Diseases of the heart," the leading cause of death, accounts for more than twice as many deaths as the second leading cause, malignant neoplasms. Of those heart disease deaths, 55 percent were male and 45 percent were female. The mean age of those who died of diseases of the heart was 72 years. Accidents was the third leading cause and cerebrovascular disease was the fourth leading cause, the fifth leading cause continued to be influenza and pneumonia in 1978, the sixth leading cause in 1978 was diseases of early infancy, and the seventh leading cause was tied between suicide and diabetes. The ninth leading cause was congenital anomalies and the tenth was "other diseases of the respiratory system."

The number of deaths and death rate per 100,000 population due to selected causes for the years, 1970-1978, are presented in Tables 35 and 36.

Table 37 gives the number of deaths to Utah residents by county of residence, and the number of deaths occurring in Utah by county of occurrence. Table 7, page 15, gives the population and death rates for each county.

Of those counties with more than 2,500 population, Sanpete had the highest death rate (10.8) and San Juan County the lowest (3.6) per 100,000 population. The contrast in rates is due to differences in the age distribution of the population in these counties. Sixty-four percent of the deaths to residents of Sanpete County were persons age 65 or older; while 41 percent of the deaths to residents of San Juan County were in this age group. In 1970 the mean age of Sanpete County residents was 28.4 years; the mean age in San Juan County was 18.2 years. These two statistics confirm that the age distributions of the two counties are different--

TABLE 34

LEADING CAUSES OF DEATH: UTAH, 1968-1978

Rank	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Total	6,882	6,791	7,063	7,245	7,323	7,573	7,380	7,519	7,472	7,612	7,871
1	Heart 2,319	Heart 2,178	Heart 2,236	Heart 2,448	Heart 2,485	Heart 2,463	Heart 2,438	Heart 2,479	Heart 2,501	Heart 2,557	Heart 2,658
2	Cancer 925	Cancer 969	Cancer 1,029	Cancer 1,016	Cancer 1,027	Cancer 1,088	Cancer 1,162	Cancer 1,169	Cancer 1,246	Cancer 1,272	Cancer 1,310
3	Cerebro-vascular 653	Cerbro-vascular 646	Cerebro-vascular 662	Cerebro-vascular 734	Cerebro-vascular 713	Cerebro-vascular 793	Cerebro-vascular 783	Cerebro-vascular 725	Cerebro-vascular 675	Cerebro-vascular 671	Accident 694
4	Accident 575	Accident 586	Accident 618	Accident 601	Accident 694	Accident 697	Accident 621	Accident 606	Accident 556	Accident 618	Cerebro-vascular 676
5	Influenza pneumonia 245	Influenza pneumonia 213	Early infancy 231	Early infancy 220	Influenza pneumonia 201	Influenza pneumonia 224	Influenza pneumonia 222	Influenza pneumonia 271	Influenza pneumonia 259	Influenza pneumonia 224	Influenza pneumonia 261
6	Early infancy 235	Early infancy 203	Influenza pneumonia 198	Influenza pneumonia 192	Early infancy 183	Early infancy 182	Early infancy 206	Early infancy 198	Early infancy 208	Suicide 180	Early infancy 183
7	Diabetes 131	Diabetes 144	Diabetes 160	Diabetes 183	Diabetes 173	Diabetes 158	Diabetes 157	Suicide 165	Suicide 207	Diabetes 172	Diabetes 167
8	Suicide 130	Suicide 116	Suicide 156	Suicide 124	Suicide 139	Suicide 148	Suicide 136	Diabetes 152	Diabetes 150	Early infancy [illegible]	Suicide 165
9	Congenital anomalies 119	Congenital anomalies 114	Asthma emphysema bronchitis 147	Asthma emphysema bronchitis 126	Alcoholism 123	Alcoholism 141	G.arterio-sclerosis 120	Congenital anomalies 137	Congenital anomalies 131	Other dis. respiratory system 140	Congenital anomalies 162
10	G.arterio-sclerosis 97	G.arterio-sclerosis 103	Congenital anomalies 124	Alcoholism 120	Asthma emphysema bronchitis 108	Asthma emphysema bronchitis 127	Asthma emphysema bronchitis 119	Asthma emphysema bronchitis 113	G.arterio-sclerosis 123	Congenital anomalies 135	Other dis. respiratory system 139
Residual	1,453	1,521	1,502	1,475	1,467	1,552	1,418	1,499	1,456	1,491	1,454

FIGURE 10

MORTALITY RATES PER 100,000 POPULATION FOR THE TEN LEADING CAUSES OF DEATH: UTAH, 1964-1978

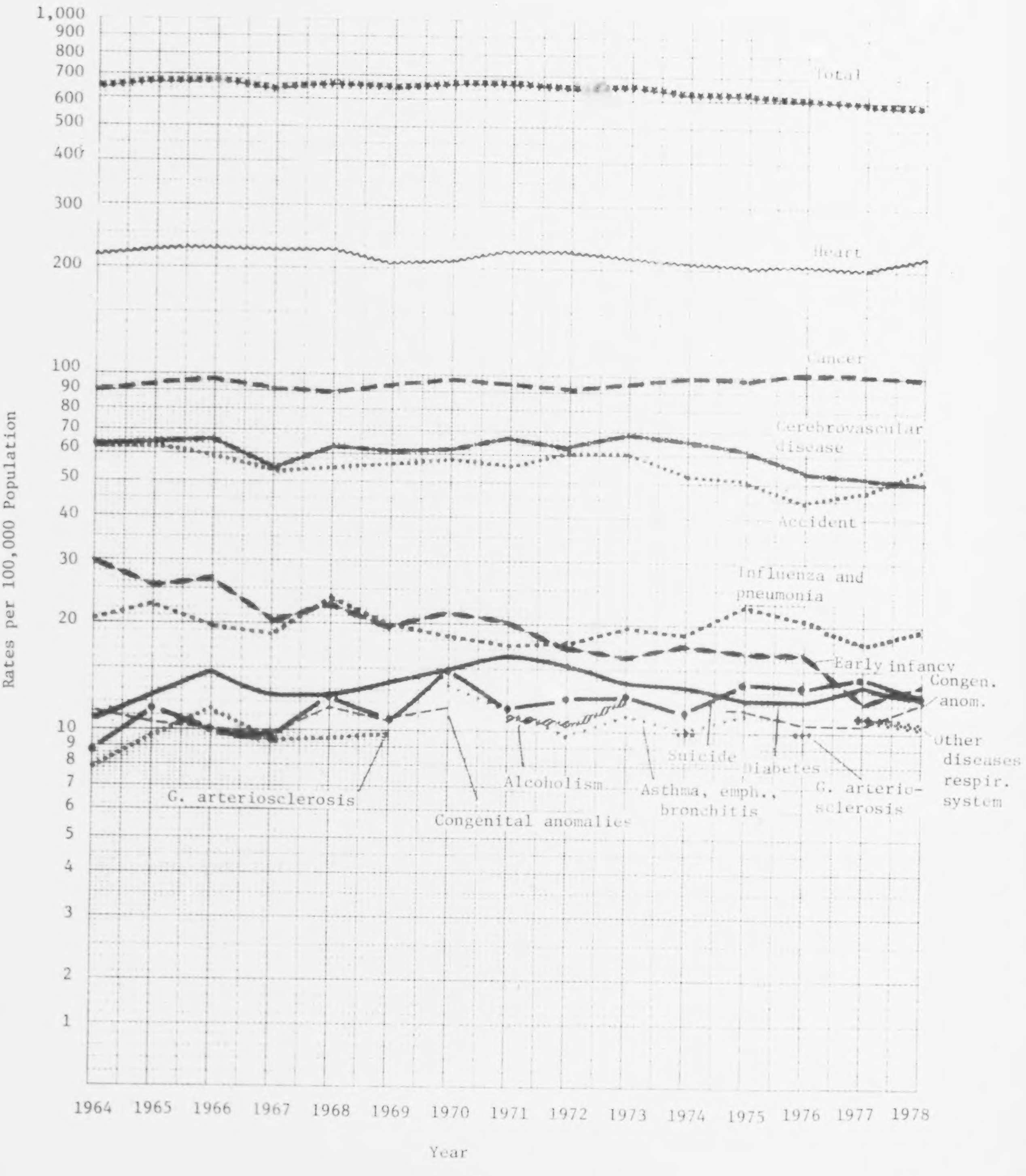


TABLE 35

MORTALITY FOR SELECTED CAUSES OF DEATH: UTAH, 1970-1978

Cause of Death per Eighth Revision of the International Classification of Disease	Deaths for Each Year								
	1978	1977	1976	1975	1974	1973	1972	1971	1970
Total, all causes	7,871	7,612	7,472	7,519	7,380	7,573	7,323	7,245	7,063
Tuberculosis, all forms, 010-019	10	6	8	6	8	14	10	13	13
Syphilis and its sequilae, 090-097	6	1	. .	3	. .	1	2	1	1
Certain other intestinal infections, 000-009	9	10	17	16	18	15	15	17	16
Other infective and parasitic diseases, 100-136	46	45	38	43	36	42	42	43	36
Malignant neoplasms, 140-208	1,309	1,272	1,246	1,169	1,162	1,088	1,027	1,016	1,029
Diabetes mellitus, 250	167	172	150	152	157	158	173	183	160
Diseases of the heart, 390-398, 402, 404, 410-429	2,658	2,557	2,500	2,479	2,438	2,463	2,485	2,448	2,236
Hypertension without mention of the heart, 400, 401, 403	13	20	17	15	20	24	18	28	22
Cerebrovascular disease, 430-438	676	671	675	725	783	793	713	734	662
General arteriosclerosis, 440	105	104	123	93	120	122	104	98	108
Other diseases of circulatory system, 441-458	153	175	183	171	144	157	171	190	167
Influenza and pneumonia, 470-486	261	224	259	271	222	224	201	192	198
Asthma, bronchitis, and emphysema, 490-493	102	118	111	133	119	127	108	126	147
Ulcer of stomach and duodenum, 531-533	20	32	31	32	35	39	39	36	49
Gastritis, duodentitis, entertis and colitis, 535, 561, 563	4	7	7	4	10	9	8	6	10
Hernia and intestinal obstruction, 550-560	29	36	33	19	32	42	27	32	25
Cirrhosis of the liver, 571	112	121	100	126	96	121	106	97	102
Nephritis and nephrosis, 580-584	22	18	31	38	28	27	35	29	32
Deliveries and complications of pregnancy, childbirth, and the puerperium, 630-678	2	4	7	6	2	5	12	2	6
Congenital anomalies, 740-759	162	135	131	137	104	114	107	107	124
Certain diseases of early infancy, 760-779	183	152	208	198	206	184	193	220	231
Symptoms, senility, and ill-defined conditions, 780-796	171	176	146	200	188	264	225	231	350
Motor vehicle accidents, E810-E832	384	336	286	278	275	370	388	330	326
Accidents, all others, E800-E807, E825-E827, E830-E838, E840-E845, E850-E859, E860-E949	310	282	270	328	346	327	306	271	292
Suicide, E940-E959	167	180	167	165	134	146	139	129	156
Homicide, E950-E959	65	52	60	36	46	41	43	35	41
All other causes	709	706	668	676	651	656	626	631	524

TABLE 36

MORTALITY RATES FOR SELECTED CAUSES OF DEATH: UTAH, 1970-1978

Cause of Death per Eighth Revision of the International Classification of Disease	Rates per 100,000 Population								
	1978	1977	1976	1975	1974	1973	1972	1971	1970
Total, all causes	597.6	599.4	606.5	625.0	625.9	658.5	649.2	661.6	662.5
Tuberculosis, all forms,	.8	(¹)	0.6	(¹)	0.7	1.2	0.9	1.2	1.2
Syphilis and its sequilae, 090-097	(¹)	(¹)	. .	(¹)	. .	(¹)	(¹)	(¹)	(¹)
Certain other intestinal infections, 000-009	.7	0.8	1.4	1.3	1.5	1.3	1.3	1.6	1.5
Other infective and parasitic diseases, 100-136	3.5	3.5	3.1	3.6	3.0	3.7	3.7	3.9	3.4
Malignant neoplasms, 140-208	99.4	100.2	101.1	97.2	98.5	94.6	91.0	92.8	96.5
Diabetes mellitus, 250	12.7	13.5	12.2	12.6	13.3	13.7	15.3	16.7	15.0
Diseases of the heart, 390-398, 402, 404, 410-429	201.8	201.3	202.9	206.1	206.7	214.2	220.3	223.6	209.8
Hypertension without mention of the heart, 400, 401, 403	1.0	1.6	1.4	1.2	1.7	2.1	1.6	2.6	2.1
Cerebrovascular disease, 430-438	51.2	52.8	54.8	60.3	66.4	69.0	63.2	67.0	62.1
General arteriosclerosis, 440	8.0	8.2	9.9	7.7	10.2	10.6	9.2	8.9	10.1
Other diseases of circulatory system, 441-458	11.6	13.8	14.9	14.2	12.2	13.7	15.2	17.4	15.7
Influenza and pneumonia, 470-486	19.8	17.6	21.0	22.5	18.8	19.5	17.8	17.5	18.6
Asthma, bronchitis, and emphysema, 490-493	7.7	9.3	9.0	11.1	10.1	11.0	9.6	11.5	13.8
Ulcer of stomach and duodenum, 531-533	1.5	2.5	2.5	2.7	2.9	3.4	3.5	3.3	4.6
Gastritis, duodentitis, entertis and colitis, 535, 561, 563	(¹)	(¹)	(¹)	(¹)	0.8	0.8	0.7	(¹)	0.9
Hernia and intestinal obstruction, 550-560	2.2	2.8	2.7	1.6	2.7	3.7	2.4	2.9	2.3
Cirrhosis of the liver, 571	8.5	9.5	8.1	10.5	8.1	10.5	9.4	8.9	9.6
Nephritis and nephrosis, 580-584	1.6	1.4	2.5	3.2	2.4	2.3	3.1	2.6	3.0
Deliveries and complications of pregnancy, childbirth, and the puerperium, 630-678	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	1.1	(¹)	(¹)
Congenital anomalies, 740-759	12.3	10.6	10.6	11.4	8.8	9.1	9.5	9.8	11.6
Certain diseases of early infancy, 760-779	13.9	12.0	16.9	16.5	17.4	16.0	17.1	20.1	21.7
Symptoms, senility, and ill-defined conditions, 780-796	13.0	13.9	11.9	16.6	15.9	23.0	19.9	21.1	32.8
Motor vehicle accidents, E810-E832	29.2	26.5	23.2	23.1	23.3	32.1	34.4	30.1	30.6
Accidents, all others, E800-E807, E825-E827, E830-E838, E840-E845, E850-E859, E860-E949	23.5	22.2	21.9	27.3	29.3	28.4	27.1	24.7	27.4
Suicide, E940-E959	12.7	14.2	13.6	13.7	11.4	12.7	[illegible]	11.8	14.6
Homicide, E950-E959	4.9	4.1	4.9	3.0	3.9	3.6	3.8	3.2	3.8

[1] If number of deaths was 7 or less, no rate was computed.

TABLE 37

DEATHS THAT OCCURRED IN UTAH AND TO UTAH RESIDENTS OUTSIDE UTAH, 1978

District and County	Deaths by County of Residence			Deaths by County of Occurrence		
	Total	Occurring in Utah	Occurring Outside of Utah	Total	Resident	Nonresident
Total	7,871	7,648	223	8,256	7,648	608
District 1	511	494	17	473	444	29
Box Elder	208	201	7	181	174	7
Cache	294	287	7	287	266	21
Rich	9	6	3	5	4	1
District 2N	1,492	1,461	31	1,475	1,415	60
Davis	502	493	9	431	411	20
Morgan	29	28	1	17	16	1
Weber	961	940	21	1,027	988	39
District 2S	3,523	3,434	89	4,093	3,727	366
Salt Lake	3,380	3,294	86	3,980	3,626	354
Tooele	143	140	3	113	101	12
District 3	1,063	1,034	29	1,083	1,043	40
Summit	43	42	1	37	31	6
Utah	958	931	27	974	943	31
Wasatch	62	61	1	72	69	3
District 4	391	383	8	325	307	18
Juab	41	40	1	35	33	2
Millard	73	71	2	70	67	3
Piute	7	7	. .	5	4	1
Sanpete	155	151	4	120	120	. .
Sevier	106	105	1	92	80	12
Wayne	9	9	. .	3	3	. .
District 5	368	358	10	370	316	54
Beaver	38	38	. .	37	32	5
Garfield	33	33	. .	35	23	12
Iron	95	93	2	95	85	10
Kane	32	31	1	43	33	10
Washington	170	163	7	160	143	17
District 6	180	168	12	139	134	5
Daggett	5	2	3	. .	. .	. .
Duchesne	77	74	3	79	78	1
Uintah	98	92	6	60	56	4
District 7	343	316	27	298	262	36
Carbon	179	174	5	175	167	8
Emery	64	62	2	31	24	7
Grand	49	41	8	43	35	8
San Juan	51	39	12	49	36	13

San Juan has a predominately younger-age population while Sampete has a predominately older-age population.

Table 38 summarizes the cause-specific fetal death rates in Utah for the past 8 years, 1971-1978. The 1978 fetal death rate was 7.3 per 1,000 live births. This rate is the lowest rate recorded. Conditions of the placenta and umbilical cord, the leading causes of fetal death, accounted for 36 percent of all fetal deaths. "Complications of pregnancy" and "congenital anomalies" were the next largest causes of fetal deaths in 1978.

Over 5 percent of deaths to Utah residents occurred among infants. Of the 443 infant deaths, 56 percent were males and 44 percent were females. About two-thirds (68 percent) of all infant deaths occurred during the first month of life, with over one-third (35 percent) occurring during the first day of life. Twenty-two years earlier, in 1954, 72 percent of infant deaths to Utah residents occurred during the first month of life, with 33 percent during the first day of life. Although the infant mortality rate has decreased by 50 percent since 1954, the change in the age distribution during this time has been negligible. Table 39 summarizes the rates of infant mortality components, 1954-1978.

Table 40 provides infant, neonatal, and perinatal deaths and rates by counties for 1978. Table 41 summarizes the annual number and infant mortality rates per 1,000 live births by condition present at birth for the years 1971-1978.

In 1978, 69 percent of infant deaths were due to conditions present at birth, and 88 percent of the 306 deaths due to these causes (ICDA 740-778) occurred during the neonatal period (Reference Table A-31). One hundred fifty-five neonatal deaths (51 percent) occurred during the first day of life.

Table 42 shows leading causes of death by age groups. For groups over age 1 through age 44, accidents are the leading cause of death. From age 45 and over, heart disease becomes the leading cause of death. Malignant neoplasms is the second leading cause of death in all age groups over age 35 through age 84. Under age 5, congenital anomalies is a major contributor. From age 15 to age 34, suicide ranks high; and strokes are a major cause at age 75 and over.

TABLE 38

FETAL DEATHS BY SELECTED CAUSES: UTAH, 1971-1978

Cause of Fetal Death and Code per Eighth Revision of the ICDA	1978		1977		1976		1975		1974		1973		1972		1971	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Total	283	7.3	318	8.4	275	7.8	257	8.1	286	9.6	219	7.8	263	9.8	258	9.4
Umbilical cord, 771	62	1.6	73	1.9	58	1.6	73	2.3	61	2.0	39	1.4	50	1.9	62	2.2
Conditions of placenta, 770	41	1.1	46	1.2	43	1.2	51	1.6	53	1.8	43	1.5	45	1.7	43	1.6
Congenital anomalies, 740-759	17	0.4	22	0.6	20	0.6	21	0.7	24	0.8	19	0.7	14	0.5	21	0.8
Hemolytic disease, 775	4	. .	8	0.2	7	0.2	7	0.2	2	. .	4	. .	10	0.4	14	0.5
Complications of pregnancy and childbirth, 762-769	36	0.9	37	1.0	31	0.9	25	0.8	35	1.2	22	0.8	35	1.3	38	1.4
Immaturity, unqualified, 777	11	0.3	20	0.5	21	0.6	11	0.3	14	0.5	12	0.4	16	0.6	11	0.4
Anoxic and hypoxic condition not elsewhere classifiable 776	16	0.4	14	0.4	10	0.3	4	. .	8	0.3	9	0.3	5	. .	9	0.3
Residual	96		98		85		65		89		71		88		60	

Note: Rates per 1,000 live births. Rate not computed for 6 or less events.

TABLE 39

RESIDENT INFANT MORTALITY RATES[1] BY AGE AT DEATH: UTAH, 1954-1978

Year	Total	Age at Death			
		Under 1 Day	1-6 Days	1-4 Weeks	1-11 Months
1978	11.4	4.0	2.6	1.2	3.6
1977	10.0	3.4	2.3	1.0	3.3
1976	11.7	4.0	2.7	1.2	3.8
1975	13.1	3.7	4.3	1.4	3.9
1974	12.2	4.4	3.0	1.6	3.2
1973	12.7	4.2	3.5	1.3	3.7
1972	13.4	4.6	3.8	1.4	3.5
1971	13.9	5.2	4.2	1.3	3.2
1970	15.0	5.6	4.5	1.0	3.9
1969	15.8	6.0	4.3	1.2	4.3
1968	17.7	7.3	5.0	1.0	4.4
1967	16.7	6.8	4.5	1.2	4.2
1966	18.3	8.2	5.8	1.0	3.3
1965	18.8	7.4	5.2	.9	5.3
1964	20.2	7.8	5.7	1.2	5.5
1963	18.6	6.8	4.9	1.2	5.7
1962	20.0	6.6	6.3	1.3	5.8
1961	20.2	7.7	6.2	1.1	5.2
1960	19.6	6.8	6.7	.9	5.2
1959	20.0	7.2	6.4	1.7	4.7
1958	22.2	7.0	8.2	1.6	5.4
1957	21.5	7.1	7.6	1.9	4.9
1956	22.4	8.3	6.6	1.8	5.7
1955	20.2	7.1	7.3	1.6	4.2
1954	02.3	6.7	6.0	1.8	5.8

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[1] Rates are per 1,000 live births.

TABLE 40

INFANT, NEONATAL, AND PERINATAL MORTALITY RATES PER 1,000 LIVE BIRTHS: UTAH, 1978

District and County	Births	Infant (Under 1 Year)		Neonatal (Under 28 Days)		Perinatal (Under 28 Days and Fetal)	
		Deaths	Rate	Deaths	Rate	Deaths	Rate
Total	38,811	443	11.4	302	7.8	585	15.1
District 1	2,527	32	12.7	22	8.7	40	15.8
Box Elder	808	14	17.3	8	9.9	17	21.0
Cache	1,670	16	9.6	12	7.2	21	12.6
Rich	49	2	(1)	2	(1)	2	(1)
District 2N	7,310	89	12.2	61	8.3	115	15.7
Davis	3,681	46	12.5	34	9.2	59	16.0
Morgan	108	2	(1)	1	(1)	2	(1)
Weber	3,521	41	11.6	26	7.4	54	15.3
District 2S	15,845	165	10.4	111	7.0	234	14.8
Salt Lake	15,241	158	10.4	107	7.0	223	14.6
Tooele	604	7	(1)	4	(1)	11	(1)
District 3	7,993	92	11.5	62	7.8	121	15.1
Summit	223	. .	(1)	. .	(1)	2	(1)
Utah	7,548	90	11.9	61	8.1	115	15.2
Wasatch	222	2	(1)	1	(1)	4	(1)
District 4	1,234	16	13.0	11	8.9	18	14.6
Juab	137	1	(1)	1	(1)	1	(1)
Millard	226	2	(1)	1	(1)	4	( )
Piute	31	. .	. .	. .	. .	. .	. .
Sanpete	371	8	21.6	5	(1)	8	21.6
Sevier	424	5	(1)	4	(1)	5	(1)
Wayne	45	. .	. .	. .	. .	. .	. .
District 5	1,433	22	15.4	15	10.5	24	16.7
Beaver	99	4	(1)	3	(1)	3	(1)
Garfield	81	2	(1)	1	(1)	1	(1)
Iron	509	7	(1)	5	(1)	12	23.6
Kane	92	2	(1)	2	(1)	2	(1)
Washington	652	7	(1)	4	(1)	6	(1)
District 6	993	8	8.1	5	(1)	11	11.1
Daggett	16	. .	. .	. .	. .	. .	. .
Duchesne	389	3	(1)	2	(1)	5	(1)
Uintah	588	5	(1)	3	(1)	6	(1)
District 7	1,476	19	12.9	15	10.2	22	14.9
Carbon	563	7	(1)	7	(1)	10	17.8
Emery	332	3	(1)	2	(1)	3	(1)
Grand	205	3	(1)	3	(1)	4	(1)
San Juan	376	6	(1)	3	(1)	8	21.3

[1] If number of deaths was 7 or less, no rate was computed.

TABLE 41

RESIDENT INFANT MORTALITY BY SELECTED CONDITIONS PRESENT AT BIRTH: UTAH, 1971-1978

Cause of Infant Death and Code per Eighth Revision of the ICDA	1978		1977		1976		1975		1974		1973		1972		1971	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Total	443	11.4	381	10.0	414	11.7	415	13.1	364	12.1	354	12.7	360	13.4	382	13.9
Congenital anomalies, 740-759	123	3.2	98	2.6	90	2.5	102	3.2	77	2.5	82	2.9	84	3.1	78	2.8
Complication of pregnancy and childbirth, 764-769, 772	29	0.7	25	0.7	46	1.3	16	0.5	14	0.4	56	2.0	35	1.3	50	1.8
Hyaline membrane disease, 776.1	30	0.8	28	0.7	50	1.4	63	1.9	63	2.1	50	1.8	55	2.0	52	1.9
Respiratory distress syndrom 776.2	36	0.9	22	0.6	26	0.7	18	0.6	17	0.5	16	6.0	30	1.1	29	1.1
Asphyxia of newborn unspecified, 776.9	28	0.7	24	0.6	20	0.6	24	0.8	29	0.9	20	0.7	36	1.3	44	1.6
Immaturity unqualified, 777	21	0.5	24	0.6	29	0.8	26	0.8	32	1.0	27	1.0	30	1.1	29	1.1
Others	176		160		154		166		132		103		90		100	

Note: Rates per 1,000 live births.

TABLE 42

LEADING CAUSES OF DEATH FOR RESIDENTS: UTAH, 1978

Cause of Death per Eighth Revision of the International Classification of Disease	Number of Deaths	Age Specific Death Rate per 100,000
Fetal Deaths		
Total all causes	283	7.3
Conditions of umbilical cord, 771	62	1.6
Conditions of the placenta, 770	41	1.1
Complications related to pregnancy and childbirth, 762-769	36	0.9
Congenital anomalies, 740-759	17	0.4
Anoxic, hypoxic condition not elsewhere classifiable 776	16	0.4
Immaturity unqualified, 777	11	0.3
All other causes	100	
Infant Deaths		
Total all causes	443	11.4
Congenital anomalies, 740-759	123	3.2
Respiratory distress syndrome, 776.2	36	0.9
Hyaline membrane disease, 776.1	30	0.8
Asphyxia of newborn unspecified, 776.9	28	0.7
Immaturity unqualified, 777	21	0.5
Other complications of pregnancy and childbirth, 769	18	0.5
Influenza and pneumonia, 470-474, 480-486	15	0.4
Birth injury, 764-768, 772	11	0.3
All other causes	161	
Age 1-4		
Total all causes	90	87.3
Accidents, E800-E949	46	44.6
Congenital anomalies, 740-759	15	14.5
Malignant neoplasms, 140-209	5	4.8
Homicide, E960-E979	5	4.8
All other causes	19	
Age 5-14		
Total all causes	88	34.1
Accidents, E800-E949	50	19.4
Homicide, 960-979	7	2.7
Malignant neoplasms, 140-209	6	2.3
Congenital anomalies, 740-759	6	2.3
All other causes	19	

Note: Rates are per 1,000 live births. Table excludes 2 deaths, age unknown.

TABLE 42--Continued

Cause of Death per Eighth Revision of the International Classification of Disease	Number of Deaths	Age Specific Death Rate per 100,000
Age 15-24		
Total all causes	309	116.2
Accidents, E800-E949	194	72.9
Suicide, E950-E959	39	14.7
Homicide, 960-978	16	6.0
Malignant neoplasms, 140-209	14	5.3
All others	46	
Age 25-34		
Total all causes	240	115.7
Accidents, E800-E949	96	46.3
Malignant neoplasms, 140-209	42	20.2
Suicide, E950-E959	30	14.5
Homicide, E960-E978	14	6.7
Undetermined accidental injury, E980-E989	10	4.8
Diabetes, 250	8	3.9
All other causes	40	
Age 35-44		
Total all causes	251	193.4
Accidents, E800-E949	54	41.6
Malignant neoplasms, 140-209	48	37.0
Heart disease, 390-398, 402, 404, 410-429	48	37.0
Suicide, E950-E959	27	20.8
Alcoholism, 291, 303, 571.0	9	6.9
Diabetes, 250	9	6.9
All other causes	56	
Age 45-54		
Total all causes	530	460.8
Heart disease, 390-398, 402, 404, 410-429	157	136.5
Malignant neoplasms, 140-209	125	108.7
Accidents, E800-E949	56	48.7
Alcoholism, 291, 303, 571.0	27	23.5
Cerebrovascular disease, 430-438	22	19.1
Suicide, E950-E959	20	17.4
Diabetes, 250	15	13.0
All other causes	108	
Age 55-64		
Total all causes	1,109	1,137.3
Heart disease, 390-398, 402, 404, 410-429	417	427.7
Malignant neoplasms, 140-209	268	274.8
Accidents, E800-E949	49	50.3
Cerebrovascular disease, 430-438	47	48.2
Alcoholism, 291, 303, 571.0	38	39.0
Bronchitis, emphysema, and asthma, 490-493	21	21.5

TABLE 42--Continued

Cause of Death per Eighth Revision of the International Classification of Disease	Number of Deaths	Age Specific Death Rate per 100,000
Age 55-64--(Continued)		
Diabetes, 250	32	32.8
Suicide, E950-E959	25	25.6
Cirrhosis of liver, 571.1-571.9	23	23.6
Other diseases of respiratory system, 519	17	17.4
Influenza and pneumonia, 470-474, 480-486	17	17.4
All other causes	155	
Age 65-74		
Total all causes	1,605	2,514.6
Heart disease, 390-398, 402, 404, 410-429	686	1,074.8
Malignant neoplasms, 140-209	352	551.5
Cerebrovascular disease, 430-438	127	199.0
Other diseases of respiratory system, 519	56	87.7
Diabetes, 250	43	67.4
Bronchitis, emphysema, and asthma, 490-493	40	62.7
Accidents, E800-E949	35	54.8
Influenza and pneumonia, 470-474, 480-486	30	47.0
All other causes	236	
Age 75-84		
Total all causes	1,963	6,365.1
Heart disease, 390-398, 402, 404, 410-429	801	2,597.3
Malignant neoplasms, 140-209	340	1,102.5
Cerebrovascular disease, 430-438	279	904.7
Influenza and pneumonia, 470=486	85	275.6
Accidents, E800-E949	59	191.3
Other diseases of respiratory system, 519	42	136.7
Diabetes, 250	40	129.7
Arteriosclerosis, 440	34	110.2
Bronchitis, emphysema, and asthma, 490-493	27	87.5
Aortic aneurism, 441	18	58.4
All other causes	238	
Age 85+		
Total all causes	1,241	18,271.5
Heart disease, 390-398, 402, 404, 410-429	535	7,876.9
Cerebrovascular disease, 430-438	187	2,753.2
Malignant neoplasms, 140-209	108	1,590.1
Influenza and pneumonia, 470-486	85	1,251.5
Arteriosclerosis, 440	55	809.8
Accidents, E800-E949	41	603.7
Senility, 794	23	338.6
Diabetes, 250	20	294.5
Other diseases of respiratory system, 519	14	206.1
All other causes	173	

Tables 43 and 44 show the deaths from malignant neoplasms for the years, 1970-1978, by sex of deceased and site of neoplasm. The four leading sites remained unchanged from 1977 to 1978 for males. The fifth leading site in 1977, pancreas, was replaced by lymphoma in 1978, and pancreas dropped to sixth. For females, the three leading sites remained unchanged. The fourth leading site in 1977, pancreas, was replaced by uterus and "lung, bronchus, and trachea." The sixth leading site in 1978 was pancreas.

In 1978 a new item was added to the death certificate. This item indicated if the decedent was of Spanish Origin. Table 45 is a summary of leading cuases of death and age at death for decedents of Spanish origin compared to the State as a whole. The leading causes of death are the same for both Spanish origin decedents and all decedents. However, the percentage of Spanish origin decedents that died of accidental causes is much larger than the total population, 21.3 percent versus 8.8 percent. Another notable difference is the percentage who died of heart and circulatory causes--27.9 percent of the Spanish origin decedents succumbed to these causes versus 42.5 percent of all decedents. For many of the other causes the number of occurrences are too small to be able to determine if there is a significant difference in the percentage dying of that cause. The age-at-death percentage for the Spanish decedents is similar to those of the total population, with two noticeable exceptions. Three times as many Spanish origin decedents died at ages 15-24, and only three-fourths as many died at ages 75 and over compared to all decedents.

TABLE 43

DEATHS FROM MALIGNANT NEOPLASMS TO MALES: UTAH, 1970-1978

Site of Lesion	Malignant Deaths by Year								
	1978	1977	1976	1975	1974	1973	1972	1971	1970
Total	695	656	686	673	635	581	573	586	562
Lung, bronchus and trachea,	145	144	153	142	148	130	120	132	122
Prostate, 185	92	83	101	93	71	79	86	83	68
Large intestine, 153	54	71	50	62	56	50	47	43	47
Pancreas, 157	36	38	43	45	39	45	36	20	35
Leukemia, 204-207	50	46	35	41	34	32	32	33	35
Stomach, 151	25	22	30	32	30	30	43	37	35
Lymphoma, 200-202	49	29	39	30	39	30	32	43	34
Kidney, 189	14	19	11	13	9	22	12	14	16
Bladder, 188	21	19	20	17	32	17	14	18	16
Brain and central nervous system, 191-192	16	18	24	24	18	14	17	18	16
Liver, bile ducts, gallbladder, 155-156	12	10	12	14	10	10	8	8	11
Recturm, 154	14	14	12	14	10	8	13	18	12
Multiple myeloma, 203	12	14	15	6	16	8	12	9	11
Skin, 172-173	22	17	17	15	12	7	16	12	11
Esophagus, 150	14	14	22	19	12	6	11	11	11
Bone, connective and soft tissue, 170-171	7	12	8	8	5	6	5	11	10
All other sites	112	86	94	98	94	87	69	76	72

TABLE 44

DEATHS FROM MALIGNANT NEOPLASMS TO FEMALES: UTAH, 1970-1978

Site of Lesion	Malignant Deaths by Year								
	1978	1977	1976	1975	1974	1973	1972	1971	1970
Total	642	618	572	524	553	507	454	430	467
Breast, 174	137	142	111	95	129	113	102	112	89
Large intestine, 153	75	69	75	62	65	58	54	44	60
Ovary, 183	48	53	29	35	29	40	36	30	36
Pancreas, 157	33	40	22	27	31	37	29	22	14
Lung, bronchus, and trachea, 162	37	29	34	32	26	31	24	23	25
Uterus, 180-182	37	31	42	28	44	30	31	34	31
Stomach, 151	21	22	18	19	31	27	8	19	16
Lymphoma, 200-202	24	26	29	26	19	21	16	14	17
Leukemia, 204-207	34	29	30	23	24	17	24	24	41
Liver, bile ducts, gall bladder, 155-156	23	12	13	12	15	14	15	5	17
Skin, 172-173	16	8	7	16	8	13	11	8	9
Bladder, 188	12	11	6	7	5	9	2	7	6
Rectum, 154	7	8	14	12	13	9	13	7	11
Brain and central nervous system, 191-192	15	16	19	22	20	8	13	14	11
Multiple myeloma, 203	16	10	11	5	10	8	7	10	5
Bone, connective and soft tissue, 170-171	6	12	8	9	10	7	9	8	6
Kidney, 189	4	13	10	5	8	7	9	5	8
All other sites	97	87	94	71	66	58	51	44	65

TABLE 45

MORTALITY DATA BY CAUSE AND AGE AT DEATH FOR SPANISH ORIGIN AND ALL NATIONALITIES: UTAH RESIDENTS, 1978

	Spanish Origin		All Nationalities	
	Number	Percentage	Number	Percentage
Cause of death				
Total all causes	215	100.0	7,871	100.0
Heart disease	49	22.8	2,658	33.8
Cancer	38	17.7	1,309	16.6
Nonmotor vehicle accidents	24	11.2	310	3.9
Motor vehicle accidents	22	10.2	384	4.9
Cerebrovascular	11	5.1	676	8.6
Suicide	7	3.3	167	2.1
Pneumonia	6	2.8	243	3.1
Cirrhosis of the liver	5	2.3	112	1.4
Congenital anomalies	5	2.3	162	2.1
Certain causes of mortality in early infancy	5	2.3	183	2.3
Homicide	5	2.3	65	0.8
All other causes	38	17.7	1,602	20.4
Age at death				
Total all causes	215	100.0	7,871	100.0
Under 1	13	6.0	443	5.6
1-4	6	2.8	90	1.1
5-14	6	2.8	88	1.1
15-24	26	12.1	309	3.9
25-34	12	5.6	239	3.0
35-44	10	4.7	251	3.2
45-54	13	6.0	529	6.7
55-64	35	16.3	1,109	14.1
65-74	31	14.4	1,605	20.4
75+	63	29.3	3,206	40.7

VIOLENT DEATH

VIOLENT DEATH SUMMARY

There were 1,050 Utah residents who died of violent causes in 1978. This total represents 13 percent of all deaths to Utah residents. Violent causes are defined as accident, alcoholism, homicide, suicide, and "violent but unable to determine whether accidentally or purposely inflicted." Deaths from these causes are typically identified as "coroner" or "medical examiner" cases. The reporting of such cases is influenced by the quality of the medical legal system in a state. Utah adopted a state-wide medical examiner system in 1968. Improvement in reporting since then accounts for some of the increase in the violent death rates.

Table 46 shows the death rate per 100,000 population for each type of violent death for the past 8 years.

TABLE 46

MORTALITY RATES BY TYPE OF VIOLENT DEATH: UTAH, 1970-1978

Type of Violence	Rates per 100,000 Population								
	1978	1977	1976	1975	1974	1973	1972	1971	1970
Total	79.7	76.6	74.2	80.4	78.7	91.2	92.0	84.1	87.0
Accident	52.7	48.7	45.1	50.4	52.7	60.6	61.5	54.9	58.0
Alcoholism	7.4	8.1	9.0	10.7	8.3	12.3	10.9	11.0	8.4
Homicide	4.9	4.1	4.9	3.0	3.9	3.6	3.8	3.2	3.8
Suicide	12.7	14.2	13.6	13.7	11.4	12.7	12.3	11.8	14.6
Unable to determine whether accidentally or purposely inflicted	2.1	1.6	1.6	2.6	2.4	2.1	3.5	3.2	2.2

The trend in the mortality rate for all violent deaths has been erratic during the period, 1970-1978. For the years, 1972-1976, the accident rate declined, with a sharp drop from 1973 to 1974; however, in 1977 and 1978 it has increased. The nation-wide fuel shortage and mandatory 55-miles-per-hour speed limit imposed in 1974 may have contributed to the reduction in accidental deaths during the 1972-1976 time period.

Rates for alcoholism have decreased for the last 4 years. The rate of alcoholism decreased 9 percent over the preceding year, and is the lowest rate recorded for the past 9 years.

Table 47 summarizes the distribution of violent deaths by type in 1978. Accidental deaths comprised the largest percentage, about two-thirds of all violent deaths to Utah residents. Accidents claimed the lives of 694 Utahns; of these, 72 percent were males and 28 percent females.

TABLE 47

VIOLENT DEATHS BY TYPE TO RESIDENTS: UTAH, 1978

Type of Violence	Number	Percentage
Total	1,050	100.0
Accident	694	66.1
Alcoholism	97	9.2
Homicide	65	6.2
Suicide	167	15.9
Unable to determine whether accidentally or purposely inflicted	27	2.6

Suicide accounted for more than 15 percent of the violent fatalities in 1978 and was the second leading cause of violent death. Of 167 suicides, 80 percent were males and 20 percent females. The rate was 12.7 per 100,000 population. Nationally, the suicide rate in 1978 was 12.2.

There were 27 Utah residents for whom death was classified as "violent but not determined whether the injury was accidentally or purposely inflicted." About two-thirds of these were males.

Table 48 gives the frequency of methods for self-inflicted deaths by sex for each year, 1963-1978. During this period the annual number of suicides increased from 80 in 1963 to 167 in 1978. The rates have also increased from 8.2 to 12.7 per 100,000 population. Over this 16-year period the number of male suicides increased by 127 percent, while the number of female suicides increased by 57 percent.

The methods used most frequently in 1978 were firearms or explosives (65 percent) and poisoning (26 percent). Table 49 summarizes the

TABLE 48

DEATHS TO RESIDENTS DUE TO SUICIDE BY YEAR, SEX, AND METHOD: UTAH, 1963-1978

Year and Sex	Suicidal Deaths by Method Used							
	Total E950-E959	All Poisoning E950-E952	Hanging and Suffocation E953	Drowning E954	Firearms and Explosives E955	Cutting and Piercing Instruments E956	Jumping from High Places E957	All Others
1978	167	43	8	. .	109	2	3	2
Male	134	25	3	. .	101	2	2	1
Female	33	18	5	. .	8	. .	1	1
1977	180	53	17	. .	106	. .	3	1
Male	147	34	13	. .	98	. .	2	. .
Female	33	19	4	. .	8	. .	1	1
1976	167	41	18	. .	98	6	2	2
Male	129	27	14	. .	80	5	1	2
Female	38	14	4	. .	18	1	1	. .
1975	165	41	14	. .	101	2	5	2
Male	132	25	10	. .	90	2	3	2
Female	33	16	4	. .	11	. .	2	. .
1974	134	48	8	. .	77	1	. .	. .
Male	104	33	8	. .	63	. .	. .	. .
Female	30	15	. .	. .	14	1	. .	. .
1973	146	39	13	1	85	2	1	5
Male	108	23	12	1	68	2	. .	2
Female	38	16	1	. .	17	. .	1	3
1972	139	31	13	2	83	2	1	7
Male	106	19	11	. .	70	2	. .	4
Female	33	12	2	2	13	. .	1	3
1971	129	28	18	. .	81	. .	1	1
Male	88	11	14	. .	62	. .	. .	1
Female	41	17	4	. .	19	. .	1	. .
1970	156	49	16	3	83	2	2	1
Male	114	25	13	1	72	2	1	. .
Female	42	24	3	2	11	. .	1	1
1969	114	43	9	. .	56	3	2	1
Male	87	27	8	. .	49	2	1	. .
Female	27	16	1	. .	7	1	1	1
1968	130	35	13	2	76	2	1	1
Male	105	22	10	1	69	2	1	. .
Female	25	13	3	1	7	. .	. .	1
1967	97	22	13	. .	56	4	1	1
Male	79	12	9	. .	52	4	1	1
Female	18	10	4	. .	4	. .	. .	. .
1966	101	21	13	1	64	. .	1	1
Male	82	13	12	. .	56	. .	1	. .
Female	19	8	1	1	8	. .	. .	1
1965	115	36	5	. .	70	2	1	1
Male	82	19	4	. .	56	1	1	1
Female	33	17	1	. .	14	1	. .	. .
1964	85	27	8	3	44	1	2	. .
Male	70	20	8	2	38	1	1	. .
Female	15	7	. .	1	6	. .	1	. .
1963	80	16	7	. .	52	3	2	. .
Male	59	6	4	. .	46	2	1	. .
Female	21	10	3	. .	6	1	1	. .

Note: The cause of death numbers are as indicated in the Eighth Revision ICDA. In 1960-1967 the Seventh Revision of the ICDA was used.

percentage distribution of the most frequently used methods for each of the sexes for 1978 and the 17-year average, 1961-1977. The total distributions did not vary significantly. Although the number of female suicides (33) in 1978 was small and the percentage distribution may be statistically unreliable, 24 percent of the female suicides were accomplished with firearms compared with an average percentage of 36 percent for the 17-year average. Firearms were most frequently used to commit suicide in 1978 by males (71 percent). Fifty-four percent of the females used poison (traditionally the most frequent method of females) to commit suicide in 1978.

TABLE 49

SUICIDES TO RESIDENTS BY METHOD AND SEX: UTAH, 17-YEAR AVERAGE, 1978

Cause	Percentage Each Cause					
	1978			17-Year Average		
	Total	Male	Female	Total	Male	Female
Total, E950-E959	100.0	100.0	100.0	100.0	100.0	100.0
Poisoning, E950-E952	25.7	18.7	54.5	26.6	20.3	47.7
Hanging and suffocation, E953	4.8	2.2	15.2	9.8	10.2	8.2
Firearms and explosives, E955	65.3	75.4	24.2	58.7	65.4	36.0
All others, E954, E956, E957, E958, E959	4.2	3.7	6.1	4.8	4.0	8.1

Table 50 summarizes suicidal deaths by age and sex for the years, 1968 through 1978. Table 51 shows the percentage distribution of suicides by age and sex for the years, 1978 and 1968 through 1977. The mean age in 1978 for male suicides was 40.7 years; for females it was 45.6 years. During the previous 10 years the mean ages for males and females were 42.4 and 42.4 years, respectively. The mean ages in 1978 may be statistically unreliable due to the small number of occurrences; however, they suggest for both males and females, that the critical age for suicide is about 40 years.

The current approach to accidental deaths is to report data by occurrence in the State, rather than to residents of the State. During 1978, 733 accidental deaths occurred in the State. The most frequent cause of accidental death occurring in Utah was motor vehicle accidents.

TABLE 50

DEATHS TO RESIDENTS DUE TO SUICIDE BY YEAR, SEX, AND AGE: UTAH, 1968-1978

Year and Sex	Total	Deaths Due to Suicide by Age Group								
		Under 15	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
1978 total	167	2	12	27	30	27	20	25	17	7
Male	134	2	9	26	25	19	16	19	12	6
Female	33	. .	3	1	5	8	4	6	5	1
1977 total	180	2	17	25	35	29	28	24	14	6
Male	147	2	17	23	29	23	21	14	12	6
Female	33	. .	. .	2	6	6	7	10	2	. .
1976 total	167	. .	13	15	38	24	31	28	13	5
Male	129	. .	9	14	31	18	20	23	10	4
Female	38	. .	4	1	7	6	11	5	3	1
1975 total	165	. .	22	22	36	26	21	15	15	8
Male	132	. .	17	20	32	18	15	10	13	7
Female	33	. .	5	2	4	8	6	5	2	1
1974 total	134	2	6	17	32	24	24	17	10	2
Male	104	1	3	14	24	19	20	12	10	1
Female	30	1	3	3	8	5	4	5	. .	1
1973 total	146	4	8	11	37	35	23	14	9	5
Male	108	3	7	9	25	25	15	12	7	5
Female	38	1	1	2	12	10	8	2	2	. .
1972 total	139	. .	5	16	26	29	26	25	6	6
Male	106	. .	5	15	18	20	20	18	5	5
Female	33	. .	. .	1	8	9	6	7	1	1
1971 total	129	1	9	17	17	30	21	16	13	5
Male	88	1	8	14	9	15	15	13	9	4
Female	41	. .	1	3	8	15	6	3	4	1
1970 total	156	2	15	17	19	28	29	22	13	11
Male	114	2	10	15	12	16	23	17	10	9
Female	42	. .	5	2	7	12	6	5	3	2
1969 total	114	1	8	13	21	22	24	15	6	4
Male	87	. .	4	11	19	19	17	10	3	4
Female	27	1	4	2	2	3	7	5	3	. .
1968 total	130	2	10	10	29	26	20	19	7	7
Male	105	1	10	9	24	18	13	16	7	7
Female	25	1	. .	1	5	8	7	3	. .	. .

TABLE 51

SUICIDES TO RESIDENTS BY AGE AND SEX: UTAH, 17-YEAR AVERAGE AND 1978

Age Group	Percentage Suicides by Year and Sex					
	1978			17-Year Average		
	Total	Male	Female	Total	Male	Female
Total	100.0	100.0	100.0	100.0	100.0	100.0
Under 15	1.2	1.5	0.0	1.1	0.9	1.2
15-19	7.2	6.7	9.1	7.7	8.0	6.8
20-24	16.2	19.4	3.0	10.9	12.4	5.2
25-34	18.0	18.7	15.2	19.6	19.6	19.3
35-44	16.2	14.2	24.2	19.1	17.2	25.0
45-54	12.0	11.9	12.1	17.1	16.2	20.5
55-64	15.0	14.2	18.2	13.7	13.4	14.5
65-74	10.2	9.0	15.2	7.1	7.4	5.6
75 and older	4.2	4.5	3.0	3.8	5.4	2.0

Figure 11 illustrates the distribution by type of accidental death. Motor vehicle accidents accounted for 55 percent of the accidental fatalities. Falls accounted for 15 percent and drowning and submersion, 4 percent.

Figure 12 shows the distribution of accidents by district of occurrence. Over 62 percent of these deaths occurred along the Wasatch Front in Districts 2N, 2S, and 3. As over 80 percent of the State's population reside in these districts, it appears that the proportion of accidents that occurred there is less than expected, given the existing population distribution.

Figure 13 illustrates the 405 motor vehicle fatalities by type of accident. Forty-five percent of the fatalities resulted from a collision with another vehicle. Noncollision due to loss of vehicular control resulted in the death of 28 percent, and 11 percent were pedestrians.

Also shown in Figure 13 is the distribution of motor vehicle fatalities by type of victim. About two-fifths (45 percent) of all persons killed in motor vehicle accidents were drivers. Passengers comprised almost another third (32 percent) of the fatalities; pedestrians, one-sixth; and motorcyclists, less than one-tenth (6 percent).

The national Safety Council classifies accidental deaths according to activity or place of accident. Table 52 reflects this classification.

FIGURE 11. ACCIDENT FATALITIES OCCURRING IN UTAH BY TYPE, 1978

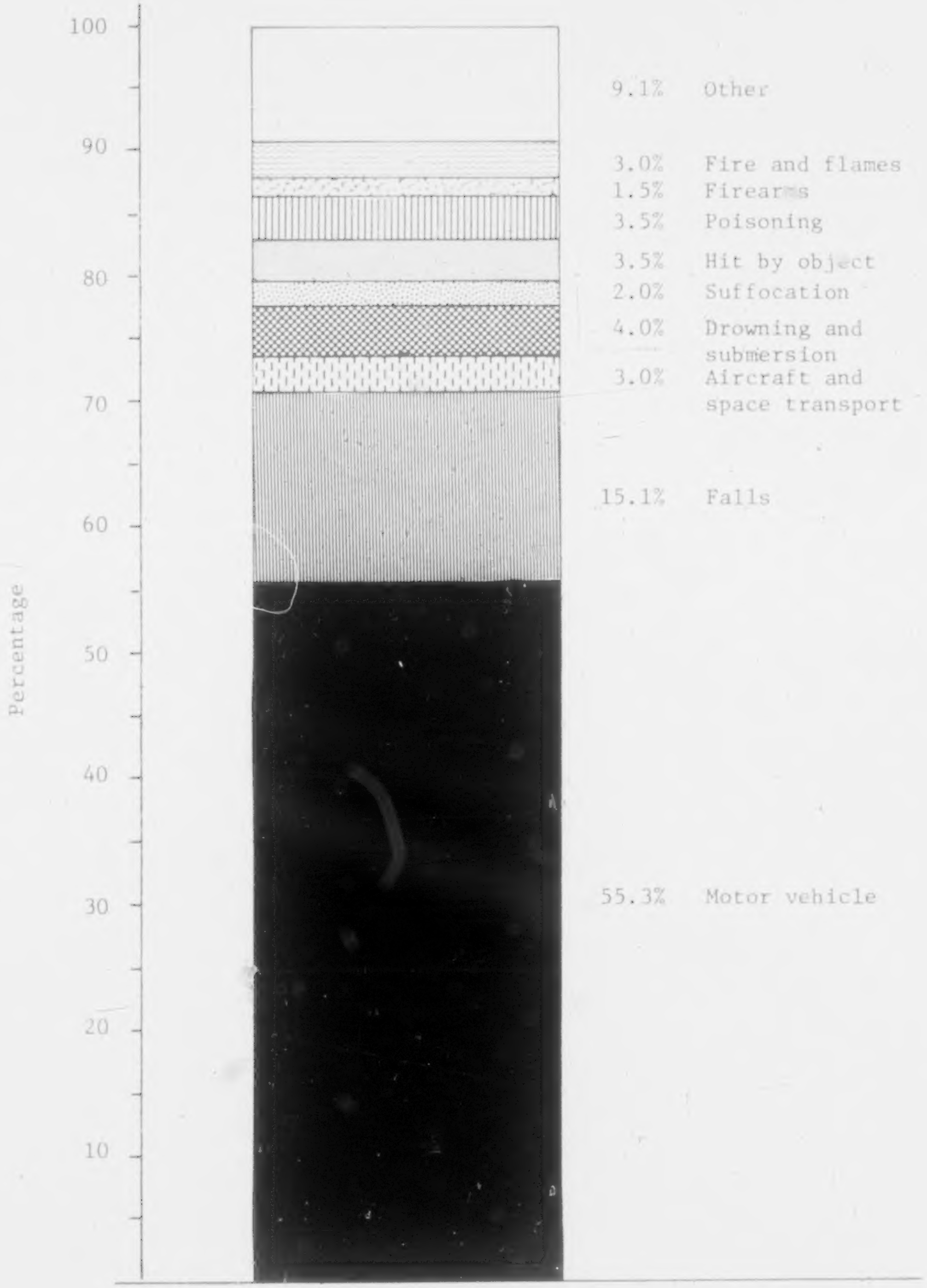


FIGURE 12. DEATHS OCCURRING IN UTAH FROM ACCIDENTS BY PLACE WHERE ACCIDENT OCCURRED, 1978

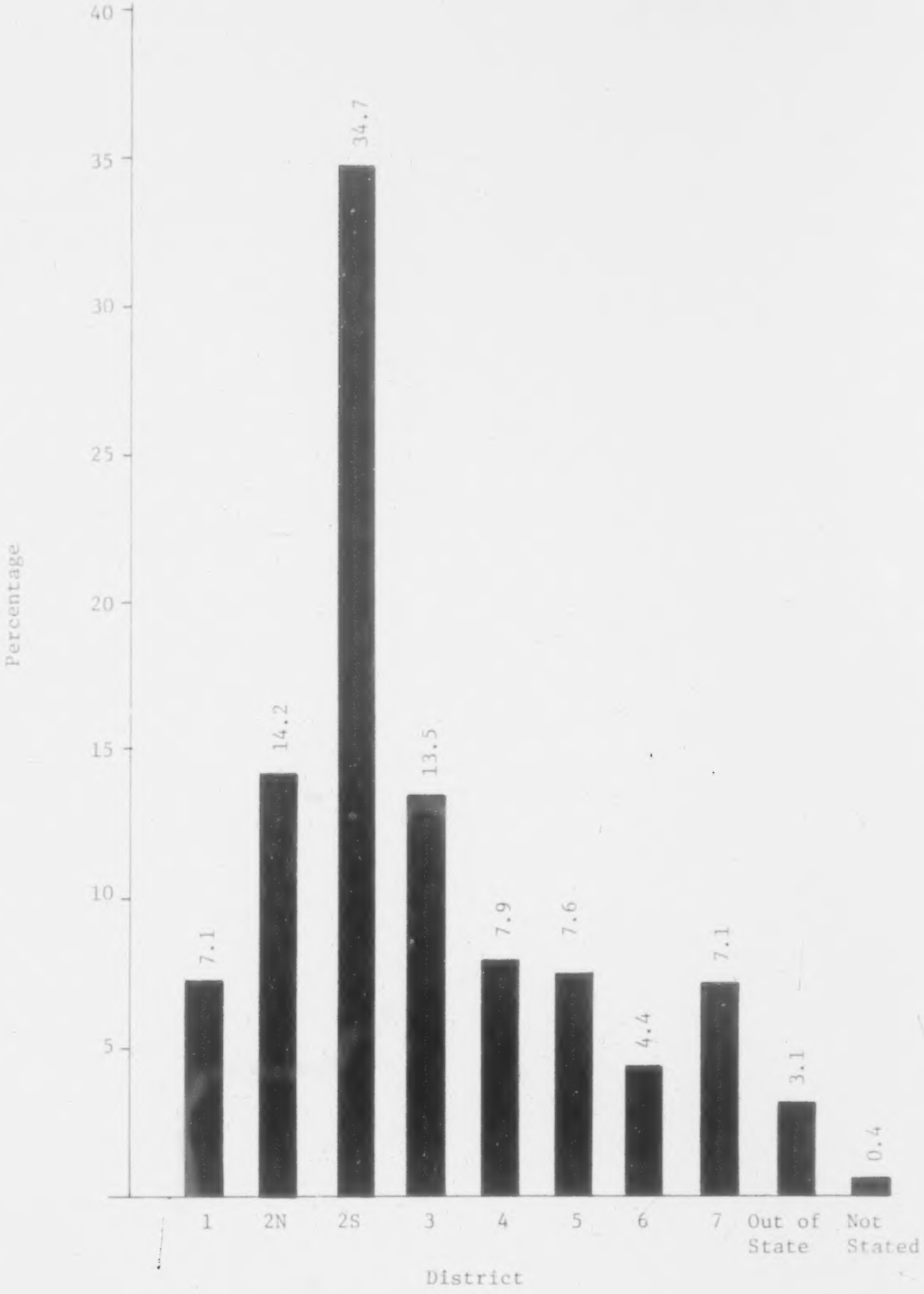
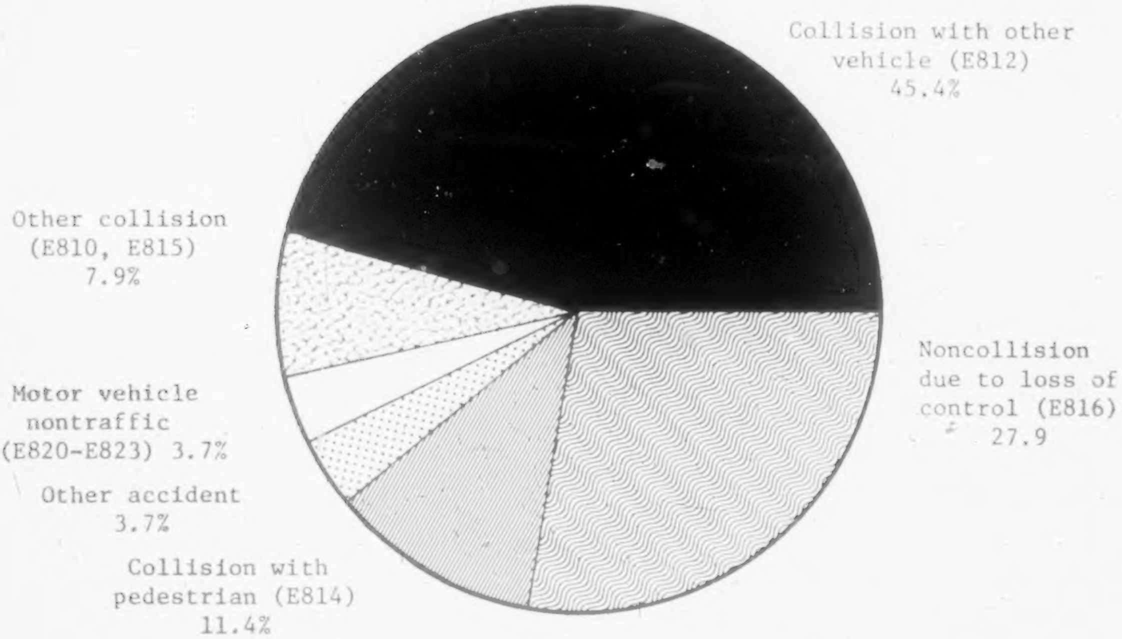
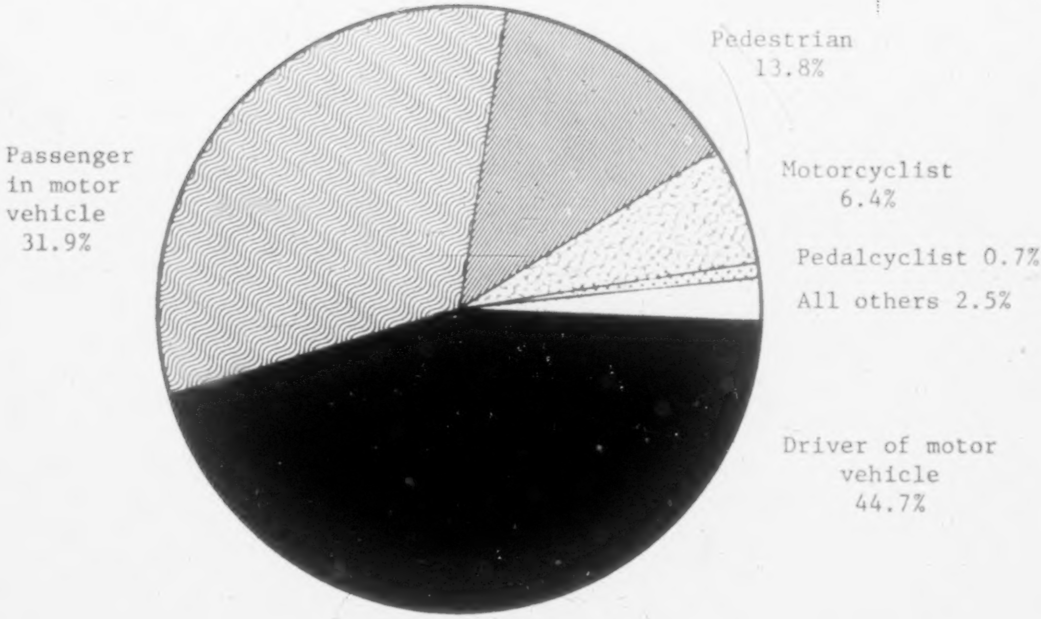


FIGURE 13. MOTOR VEHICLE ACCIDENTS OCCURRING IN UTAH, 1978

Type of Accident



Person Deceased



Twenty percent of all accidents occurred at home. Thirty-two percent (46) of the home accident fatalities were to persons age 65 and older.

TABLE 52

ACCIDENTAL DEATHS BY ACTIVITY OR PLACE (NUMBER AND RATE): UTAH, 1978

Activity or Place of Accident	Number	Rate per 100,000 Population
Total	733	55.7
Motor vehicle[1]	405	30.8
Work	68	5.2
Home	144	10.9
Public nonmotor vehicle	331	25.1

[1] Includes 21 work and 6 home motor vehicle deaths.

The use of firearms or explosives resulted in the death of 164 Utah residents in 1978; of these, 148 were men and 16 were women (Table A-48). Suicides accounted for 66 percent of the firearm deaths; assaults, 22 percent; and accidents, 7 percent. Five percent could not be determined whether accidentally or purposely inflicted.

Table 53 also summarizes deaths caused by firearms or explosives by age and sex since 1968. The total number of deaths due to this cause increased by 39 deaths over 1968 and increased 18 from 1977. The number of accidental deaths was the lowest since 1968. The number of suicidal deaths increased by three from 1977 and was the highest number of suicidal deaths ever reported in Utah. The number of deaths due to assault with firearms increased by 10 from 1977.

Eighty-five Utah residents died as a result of poisoning (Table 54). Males accounted for 66 percent of these deaths; females, 34 percent, Fifty percent of the poisoning deaths were suicides.

TABLE 53

VIOLENT DEATHS TO RESIDENTS DUE TO FIREARM AND EXPLOSIVE MATERIALS BY TYPE, SEX, AND YEAR: UTAH, 1968-1978

Type of Death and Sex of Deceased	Violent Deaths to Residents by Year										
	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968
Total violent deaths due to firearm missiles and explosive materials E922-E985	164	146	152	148	130	139	141	130	137	102	125
Male	148	130	126	124	105	113	115	100	113	89	105
Female	16	16	26	24	25	26	26	30	24	13	20
Accident, E922-E923	12	12	13	22	14	20	23	22	27	25	20
Male	11	9	13	16	13	19	20	21	22	22	20
Female	1	3	. .	6	1	1	3	1	5	3	. .
Suicide and self-inflicted injury, E955	109	106	98	101	77	85	83	81	83	56	76
Male	101	98	80	90	63	68	70	62	72	49	69
Female	8	8	18	11	14	17	13	19	11	7	7
Assault, E965	36	26	37	17	30	21	28	17	22	18	24
Male	29	21	30	12	22	13	19	8	14	15	12
Female	7	5	7	5	8	8	9	9	8	3	12
Undetermined whether accidentally or purposely inflicted, E985	7	2	4	8	9	13	7	10	5	3	5
Male	7	2	3	6	7	13	6	9	5	3	4
Female	. .	. .	1	2	2	. .	1	1	. .	. .	1

TABLE 54

DEATHS TO RESIDENTS DUE TO POISONING BY TYPE AND YEAR: UTAH, 1968-1978

I.C.D.A. Code	Deaths Due to Poisoning by Year										
	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968
Total	85	75	65	73	84	63	60	50	75	58	50
Accident	29	13	16	23	25	19	18	18	22	14	11
Drugs and medicants, E850-E859	7	5	4	5	9	10	6	7	9	6	3
Other solid or liquid substances E860-E869	8	5	3	3	5	5	7	5	4	2	1
Gases and vapors, E870-E877	14	3	9	15	11	4	5	6	9	6	7
Suicide	43	53	41	41	48	39	31	28	49	43	35
Solid or liquid substances, E950	25	35	22	24	33	26	19	17	30	23	18
Other gases, E952	18	18	19	17	15	13	12	11	19	20	17
Undetermined Whether Accidentally or Purposely Inflicted	13	9	8	9	11	5	11	4	4	3	4
Solid or liquid substances, E980	10	9	6	7	8	4	9	4	3	2	4
Other gases, E982	3	. .	2	2	3	1	2	. .	1	1	. .

REFERENCE TABLES

TABLE A-1

LIVE BIRTHS BY COUNTY OF OCCURRENCE, SEX, ATTENDANT AND HOSPITAL DELIVERY: UTAH, 1978

County of Occurrence	Live Births by Sex, Attendant, and Hospital Delivery					
	Total	Male	Female	Attended by Physician	Attended by Midwife	Delivered at Hospital
Total	39,758	20,353	19,405	38,751	88	39,292
District 1	2,667	1,382	1,285	2,652	. .	2,651
Box Elder	686	355	331	685	. .	685
Cache	1,980	1,027	953	1,967	. .	1,966
Rich	1	. .	1	. .	. .	. .
District 2N	7,382	3,778	3,604	7,093	. .	7,342
Davis	2,610	1,303	1,307	2,331	. .	2,588
Morgan	1	. .	1	1	. .	. .
Weber	4,771	2,475	2,296	4,761	. .	4,754
District 2S	16,502	8,419	8,083	16,190	. .	16,380
Salt Lake	16,282	8,320	7,962	16,017	. .	16,162
Tooele	220	99	121	173	. .	218
District 3	8,011	4,180	3,831	7,878	. .	7,927
Summit	56	25	31	55	. .	55
Utah	7,726	4,039	3,687	7,596	. .	7,644
Wasatch	229	116	113	227	. .	228
District 4	1,093	549	544	1,049	. .	1,087
Juab	94	45	49	57	. .	93
Millard	190	90	100	187	. .	190
Piute	. .	. .	. .	. .	. .	. .
Sanpete	366	182	184	364	. .	364
Sevier	443	232	211	441	. .	440
Wayne	. .	. .	. .	. .	. .	. .
District 5	1,843	888	955	1,677	88	1,674
Beaver	112	47	65	112	. .	112
Garfield	80	39	41	78	. .	78
Iron	587	292	295	582	. .	583
Kane	95	47	48	93	. .	93
Washington	969	463	506	812	88	808
District 6	902	464	438	868	. .	893
Daggett	. .	. .	. .	. .	. .	. .
Duchesne	390	199	191	360	. .	384
Uintah	512	265	247	508	. .	509
District 7	1,358	693	665	1,344	. .	1,338
Carbon	753	392	361	753	. .	752
Emery	7	3	4	3	. .	. .
Grand	251	116	135	250	. .	249
San Juan	347	182	165	338	. .	337

TABLE A-2

LIVE BIRTHS BY SEX, SINGLE AND MULTIPLE, BIRTH ORDER AND RESIDENCE OF MOTHER: UTAH, 1978

Residence of Mother	Total Live Births	Live Births by Sex		Single and Multiple Births		Live Births by Birth Order						
		Male	Female	Single	Multi-ple	First	Second	Third	Fourth	Fifth	Sixth & Higher	Not Stated
Total	38,811	19,886	18,925	38,061	750	12,617	9,930	6,853	4,335	2,407	2,598	71
District 1	2,527	1,314	1,213	2,466	61	845	616	430	290	160	184	2
Box Elder	808	418	390	785	23	230	196	156	105	60	61	. .
Cache	1,670	867	803	1,632	38	598	413	265	180	96	116	2
Rich	49	29	20	49	. .	17	7	9	5	4	7	. .
District 2N	7,310	3,729	3,581	7,160	150	2,293	1,945	1,300	839	460	470	3
Davis	3,681	1,869	1,812	3,587	94	1,035	957	635	467	295	290	2
Morgan	108	49	59	106	2	27	25	24	12	9	11	. .
Weber	3,521	1,811	1,710	3,467	54	1,231	963	641	360	156	169	1
District 2S	15,845	8,100	7,745	15,546	299	5,274	4,194	2,910	1,675	903	836	53
Salt Lake	15,241	7,821	7,420	14,946	295	5,075	4,057	2,793	1,603	870	791	52
Tooele	604	279	325	600	4	199	137	117	72	33	45	1
District 3	7,993	4,164	3,829	7,840	153	2,797	1,881	1,230	886	524	670	5
Summit	223	106	117	219	4	65	62	33	31	13	19	. .
Utah	7,548	3,940	3,608	7,401	147	2,661	1,771	1,156	832	496	627	5
Wasatch	222	118	104	220	2	71	48	41	23	15	24	. .
District 4	1,234	623	611	1,210	24	322	294	223	174	105	113	3
Juab	137	75	62	137	. .	37	36	22	22	11	9	. .
Millard	226	106	120	216	10	47	54	43	37	20	24	1
Piute	31	18	13	31	. .	8	7	4	4	5	3	. .
Sanpete	371	183	188	365	6	101	87	66	58	22	37	. .
Sevier	424	222	202	416	8	118	103	75	46	42	38	2
Wayne	45	19	26	45	. .	11	7	13	7	5	2	. .
District 5	1,433	698	735	1,401	32	371	350	258	182	111	157	4
Beaver	99	46	53	97	2	18	31	16	17	8	8	1
Garfield	81	42	39	81	. .	26	18	16	11	4	6	. .
Iron	509	252	257	493	16	154	135	85	60	32	40	3
Kane	92	43	49	90	2	16	26	19	8	10	13	. .
Washington	652	315	337	640	12	157	140	122	86	57	90	. .
District 6	993	504	489	985	8	285	243	204	111	69	81	. .
Daggett	16	10	6	16	. .	5	5	3	. .	2	1	. .
Duchesne	389	195	194	383	6	93	92	94	43	26	41	. .
Uintah	588	299	289	586	2	187	146	107	68	41	39	. .
District 7	1,476	754	722	1,453	23	430	407	298	178	75	87	1
Carbon	563	298	265	552	11	171	173	121	64	19	15	. .
Emery	332	162	170	328	4	85	95	70	43	23	16	. .
Grand	205	104	101	201	4	74	58	38	24	7	4	. .
San Juan	376	190	186	372	4	100	81	69	47	26	52	1

TABLE A-3

LIVE BIRTHS BY RESIDENCE OF MOTHER AND RACE OF CHILD: UTAH, 1978

Residence of Mother	Total Live Births	Live Births by Race				
		White	Black	Indian	Other Nonwhite	Race Not Stated
Total	38,811	37,433	218	556	550	54
District 1	2,527	2,478	9	16	22	2
Box Elder	808	784	. .	13	11	. .
Cache	1,670	1,647	9	2	10	2
Rich	49	47	. .	1	1	. .
District 2N	7,310	7,067	89	32	113	9
Davis	3,681	3,552	30	21	76	2
Morgan	108	107	. .	. .	1	. .
Weber	3,521	3,408	59	11	36	7
District 2S	15,845	15,264	111	148	298	24
Salt Lake	15,241	14,679	103	143	293	23
Tooele	604	585	8	5	5	1
District 3	7,993	7,836	3	59	92	3
Summit	223	220	. .	2	. .	1
Utah	7,548	7,398	3	55	90	2
Wasatch	222	218	. .	2	2	. .
District 4	1,234	1,201	. .	22	7	4
Juab	137	137	. .	. .	. .	. .
Millard	226	219	. .	3	4	. .
Piute	31	31	. .	. .	. .	. .
Sanpete	371	363	. .	5	3	. .
Sevier	424	406	. .	14	. .	4
Wayne	45	45	. .	. .	. .	. .
District 5	1,433	1,388	. .	29	8	8
Beaver	99	96	. .	2	1	. .
Garfield	81	78	. .	2	. .	1
Iron	509	483	. .	17	4	5
Kane	92	91	. .	. .	1	. .
Washington	652	640	. .	8	2	2
District 6	993	911	1	74	3	4
Daggett	16	16	. .	. .	. .	. .
Duchesne	389	370	1	16	1	1
Uintah	588	525	. .	58	2	3
District 7	1,476	1,288	5	176	7	. .
Carbon	563	548	4	8	3	. .
Emery	332	329	. .	3	. .	. .
Grand	205	194	1	7	3	. .
San Juan	376	217	. .	158	1	. .

TABLE A-4

LIVE BIRTHS BY MONTH OF OCCURRENCE AND RESIDENCE OF MOTHER: UTAH, 1978

Residence of Mother	Total Live Births	LIVE BIRTHS BY MONTH OF OCCURRENCE											
		January	February	March	April	May	June	July	August	September	October	November	December
Total	38,811	3,101	. ,824	3,413	3,229	3,330	3,235	3,408	3,364	3,310	3,289	3,060	3,248
District 1	2,527	220	192	211	213	214	192	233	211	211	214	197	219
Box Elder	808	61	77	56	79	60	61	82	61	67	77	60	67
Cache	1,670	158	112	153	131	152	126	148	143	137	131	133	146
Rich	49	1	3	2	3	2	5	3	7	7	6	4	6
District 2N	7,310	538	537	681	610	611	611	666	624	653	598	571	610
Davis	3,681	258	262	345	304	320	327	323	321	354	297	274	296
Morgan	108	9	10	13	9	10	6	9	7	5	9	14	7
Weber	3,521	271	265	323	297	281	278	334	296	294	292	283	307
District 2S	15,845	1,290	1,100	1,423	1,325	1,399	1,349	1,356	1,433	1,269	1,322	1,270	1,309
Salt Lake	15,241	1,239	1,061	1,369	1,273	1,345	1,294	1,308	1,376	1,224	1,268	1,221	1,263
Tooele	604	51	39	54	52	54	55	48	57	45	54	49	46
District 3	7,993	630	636	675	690	659	664	689	696	701	697	615	641
Summit	223	21	16	17	17	23	20	13	21	17	19	20	19
Utah	7,548	593	602	638	658	617	629	653	657	666	656	578	601
Wasatch	222	16	18	20	15	19	15	23	18	18	22	17	21
District 4	1,234	108	97	112	103	113	94	116	79	105	104	94	109
Juab	137	11	15	11	10	10	11	10	13	12	13	11	10
Millard	226	17	17	26	19	21	14	25	15	14	17	20	21
Piute	31	4	3	2	4	2	3	3	4	1	1	4	. .
Sanpete	371	35	31	36	32	32	29	38	21	34	28	28	27
Sevier	424	37	24	36	36	44	32	35	23	38	41	28	50
Wayne	45	4	7	1	2	4	5	5	3	6	4	3	1
District 5	1,433	112	106	124	106	108	113	133	103	136	127	120	145
Beaver	99	6	8	5	6	10	8	10	11	8	12	8	7
Garfield	81	6	4	6	4	7	6	3	10	6	11	10	8
Iron	509	48	33	47	41	39	40	50	32	48	45	37	49
Kane	92	5	6	12	4	6	11	8	7	14	6	4	9
Washington	652	47	55	54	51	46	48	62	43	60	53	61	72
District 6	993	85	64	73	66	93	83	101	84	103	84	79	78
Daggett	16	1	. .	1	1	3	. .	1	4	2	1	1	1
Duchesne	389	35	26	31	23	26	36	40	44	37	27	33	31
Uintah	588	49	38	41	42	64	47	60	36	64	56	45	46
District 7	1,476	118	92	114	116	133	129	114	134	132	143	114	137
Carbon	563	38	34	39	41	57	48	46	56	39	62	46	57
Emery	332	23	14	27	28	29	35	24	29	34	31	29	29
Grand	205	18	12	18	14	18	14	16	17	24	20	16	18
San Juan	376	39	32	30	33	29	32	28	32	35	30	23	33

TABLE A-5

LIVE BIRTHS BY RESIDENCE OF MOTHER AND BIRTH WEIGHT OF CHILD: UTAH, 1978

Residence of Mother	Total Live Births	Live Births by Birth Weight of Child (Grams and Pounds)									
		1,000 or less (2 lbs. 3 oz. or less)	1,001-1,500 (2 lbs. 3 oz.-3 lbs. 4 oz.)	1,501-2,000 (3 lbs. 5 oz.-4 lbs. 6 oz.)	2,001-2,500 (4 lbs. 7 oz.-5 lbs. 8 oz.)	2,501-3,000 (5 lbs. 9 oz.-6 lbs. 9 oz.)	3,001-3,500 (6 lbs. 10 oz.-7 lbs. 11 oz.)	3,501-4,000 (7 lbs. 12 oz.-8 lbs. 13 oz.)	4,001-4,500 (8 lbs. 14 oz.-9 lbs. 14 oz.)	4,501 & over (9 lbs. 15 oz. & over)	Not Stated
Total	38,811	101	186	407	1,495	6,303	14,945	11,407	3,281	599	87
District 1	2,527	7	12	31	108	437	980	734	179	33	6
Box Elder	808	1	5	10	43	124	300	238	71	14	2
Cache	1,670	6	7	21	63	302	660	486	103	18	4
Rich	49	. .	. .	. .	2	11	20	10	5	1	. .
District 2N	7,310	23	39	86	275	1,306	2,834	2,071	564	100	12
Davis	3,681	15	17	40	146	609	1,449	1,066	289	46	4
Morgan	108	. .	1	. .	1	15	41	31	18	1	. .
Weber	3,521	8	21	46	128	682	1,344	974	257	53	8
District 2S	15,845	36	77	180	623	2,619	6,150	4,522	1,390	220	28
Salt Lake	15,241	34	75	170	599	2,521	5,910	4,344	1,347	214	27
Tooele	604	2	2	10	24	98	240	178	43	6	1
District 3	7,993	22	35	57	275	1,073	2,975	2,592	766	175	23
Summit	223	1	1	3	8	33	79	66	27	5	. .
Utah	7,548	21	32	52	259	1,006	2,811	2,464	715	167	21
Wasatch	222	. .	2	2	8	34	85	62	24	3	2
District 4	1,234	2	11	11	45	198	465	371	107	18	6
Juab	137	. .	. .	1	. .	23	57	36	18	2	. .
Millard	226	. .	2	1	12	34	80	68	20	6	3
Piute	31	. .	. .	. .	. .	8	12	7	3	. .	1
Sanpete	371	2	4	1	15	63	143	104	33	4	2
Sevier	424	. .	4	8	18	64	152	142	32	4	. .
Wayne	45	. .	1	. .	. .	6	21	14	1	2	. .
District 5	1,433	3	3	15	52	230	557	439	107	26	1
Beaver	99	1	. .	5	4	19	39	20	8	3	. .
Garfield	81	. .	. .	1	5	16	29	22	7	1	. .
Iron	509	2	2	5	22	95	198	145	36	4	. .
Kane	92	. .	. .	1	3	17	29	33	7	2	. .
Washington	652	. .	1	3	18	83	262	219	49	16	1
District 6	993	3	7	9	40	175	391	278	75	12	3
Daggett	16	. .	. .	. .	. .	3	7	5	1	. .	. .
Duchesne	389	. .	2	2	13	66	162	107	31	6	. .
Uintah	588	3	5	7	27	106	222	166	43	6	3
District 7	1,476	5	2	18	77	265	593	400	93	15	8
Carbon	563	1	. .	10	31	110	227	129	46	8	1
Emery	332	2	. .	. .	13	55	136	104	19	2	1
Grand	205	2	. .	3	13	27	77	69	11	3	. .
San Juan	376	. .	2	5	20	73	153	98	17	2	6

TABLE A-6

LIVE BIRTHS BY RESIDENCE OF MOTHER AND PRENATAL VISITS: UTAH, 1978

Residence of Mother	Live Births by Prenatal Visits								
	Total	None	1-5	6-9	10-14	15-18	19-27	27+	Not Stated
Total	38,811	169	2,287	9,711	23,680	1,776	270	35	883
District 1	2,527	10	107	579	1,696	109	10	. .	16
Box Elder	808	2	52	233	477	31	5	. .	8
Cache	1,670	8	53	331	1,191	76	5	. .	6
Rich	49	. .	2	15	28	2	. .	. .	2
District 2N	7,310	27	339	1,605	4,801	294	34	3	207
Davis	3,681	11	175	836	2,379	192	28	2	58
Morgan	108	. .	4	16	82	2	. .	. .	4
Weber	3,521	16	160	753	2,340	100	6	1	145
District 2S	15,845	51	962	3,680	9,677	826	130	27	492
Salt Lake	15,241	50	933	3,563	9,300	769	119	26	481
Tooele	604	1	29	117	377	57	11	1	11
District 3	7,993	22	373	2,008	5,188	319	39	2	42
Summit	223	. .	17	53	137	11	. .	. .	5
Utah	7,548	21	309	1,859	4,978	305	39	2	35
Wasatch	222	1	47	96	73	3	. .	. .	2
District 4	1,234	6	80	306	722	83	27	. .	10
Juab	137	. .	10	26	81	15	4	. .	1
Millard	226	. .	11	58	131	18	7	. .	1
Piute	31	. .	. .	14	14	3	. .	. .	. .
Sanpete	371	3	23	65	243	25	10	. .	2
Sevier	424	3	28	127	233	21	6	. .	6
Wayne	45	. .	8	16	20	1	. .	. .	. .
District 5	1,433	9	117	566	636	82	13	1	9
Beaver	99	. .	8	26	54	11	. .	. .	. .
Garfield	81	1	8	21	46	2	2	1	. .
Iron	509	6	26	137	274	54	9	. .	3
Kane	92	. .	15	40	32	4	1	. .	. .
Washington	652	2	60	342	230	11	1	. .	6
District 6	993	3	113	304	508	42	10	1	12
Daggett	16	. .	2	6	5	2	1	. .	. .
Duchesne	389	. .	47	101	226	11	3	. .	1
Uintah	588	3	64	197	277	29	6	1	11
District 7	1,476	41	196	663	452	21	7	1	95
Carbon	563	1	74	298	162	4	1	. .	23
Emery	332	5	42	155	115	5	2	. .	8
Grand	205	4	15	74	95	10	4	1	2
San Juan	376	31	65	136	80	2	. .	. .	62

TABLE A-7

LIVE BIRTHS BY RESIDENCE OF MOTHER AND MONTH PRENATAL CARE BEGAN: UTAH, 1978

Residence of Mother	Total Live Births	Live Births by Month Prenatal Care Began										
		None	1	2	3	4	5	6	7	8	9	Not Stated
Total	38,811	131	2,404	17,100	11,549	3,798	1,528	709	425	242	103	822
District 1	2,527	8	75	873	1,132	227	94	41	30	20	6	21
Box Elder	808	2	26	329	262	85	41	23	14	11	2	13
Cache	1,670	6	44	526	855	137	51	16	16	7	4	8
Rich	49	. .	5	18	15	5	2	2	. .	2	. .	. .
District 2N	7,310	22	500	3,767	1,885	596	210	100	68	56	10	96
Davis	3,681	10	268	1,816	1,014	307	108	45	30	32	6	45
Morgan	108	. .	3	62	24	13	2	. .	. .	2	1	1
Weber	3,521	12	229	1,889	847	276	100	55	38	22	3	50
District 2S	15,845	35	1,058	6,156	4,927	1,779	761	315	182	90	37	505
Salt Lake	15,241	34	1,021	5,956	4,718	1,709	722	300	169	86	34	492
Tooele	604	1	37	200	209	70	39	15	13	4	3	13
District 3	7,993	20	360	4,349	2,179	640	206	101	61	27	15	35
Summit	223	. .	17	105	63	20	7	1	2	2	2	4
Utah	7,548	18	333	4,170	2,039	596	184	87	58	22	12	29
Wasatch	222	2	10	74	77	24	15	13	1	3	1	2
District 4	1,234	5	98	548	347	121	42	32	11	9	7	14
Juab	137	. .	14	76	27	10	4	3	1	. .	1	1
Millard	226	. .	22	70	77	32	7	10	1	3	2	2
Piute	31	. .	. .	14	11	1	3	1	1	. .	. .	. .
Sanpete	371	3	25	144	119	43	14	11	2	4	3	3
Sevier	424	2	35	225	100	28	11	7	6	1	1	8
Wayne	45	. .	2	19	13	7	3	. .	. .	1	. .	. .
District 5	1,433	7	224	545	338	141	67	37	32	12	10	20
Beaver	99	. .	7	39	21	15	10	3	2	1	1	. .
Garfield	81	. .	8	40	14	7	6	. .	1	2	1	2
Iron	509	6	166	183	87	33	18	8	7	. .	. .	1
Kane	92	. .	1	36	30	13	6	1	. .	2	3	. .
Washington	652	1	42	247	186	73	27	25	22	7	5	17
District 6	993	3	37	377	301	120	69	33	14	13	6	20
Daggett	16	. .	. .	4	3	6	. .	3	. .	. .	. .	. .
Duchesne	389	. .	16	161	118	46	24	13	3	3	3	2
Uintah	588	3	21	212	180	68	45	17	11	10	3	18
District 7	1,476	31	52	485	440	174	79	50	27	15	12	111
Carbon	563	. .	15	207	190	68	24	16	10	9	2	22
Emery	332	5	12	140	93	35	16	12	5	1	2	11
Grand	205	4	15	80	62	24	12	4	2	. .	. .	2
San Juan	376	22	10	58	95	47	27	18	10	5	8	76

TABLE A-8

LIVE BIRTHS BY AGE AND RESIDENCE OF MOTHER: UTAH, 1978

District and County of Residence	Total	Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not Stated
Total	38,811	39	4,377	14,420	11,575	5,969	2,021	387	22	1
District 1	2,527	. .	243	970	778	363	142	30	1	. .
Box Elder	808	. .	124	263	239	130	43	9	. .	. .
Cache	1,670	. .	117	695	518	225	95	19	1	. .
Rich	49	. .	2	12	21	8	4	2	. .	. .
District 2N	7,310	8	908	2,572	2,173	1,157	411	79	2	. .
Davis	3,681	3	398	1,175	1,133	679	249	42	2	. .
Morgan	108	. .	14	30	26	22	13	3	. .	. .
Weber	3,521	5	496	1,367	1,014	456	149	34	. .	. .
District 2S	15,845	21	1,852	5,567	4,895	2,566	802	130	12	. .
Salt Lake	15,241	19	1,734	5,362	4,755	2,469	763	127	12	. .
Tooele	604	2	118	205	140	97	39	3	. .	. .
District 3	7,993	4	699	3,447	2,232	1,110	413	82	6	. .
Summit	223	. .	33	64	73	35	13	5	. .	. .
Utah	7,548	3	638	3,313	2,091	1,039	382	76	6	. .
Wasatch	222	1	28	70	68	36	18	1	. .	. .
District 4	1,234	1	149	424	352	216	80	12	. .	. .
Juab	137	. .	20	48	39	22	7	1	. .	. .
Millard	226	. .	18	82	62	50	12	2	. .	. .
Piute	31	. .	4	8	9	5	4	1	. .	. .
Sanpete	371	1	40	134	106	55	29	6	. .	. .
Sevier	424	. .	63	135	120	80	24	2	. .	. .
Wayne	45	. .	4	17	16	4	4	. .	. .	. .
District 5	1,433	. .	139	525	439	229	76	24	. .	1
Beaver	99	. .	14	39	30	13	3	. .	. .	. .
Garfield	81	. .	11	32	17	16	3	2	. .	. .
Iron	509	. .	48	197	152	83	24	5	. .	. .
Kane	92	. .	4	35	30	14	9	. .	. .	. .
Washington	652	. .	62	222	210	103	37	17	. .	1
District 6	993	3	153	367	270	146	38	15	1	. .
Daggett	16	. .	3	7	3	2	. .	1	. .	. .
Duchesne	389	. .	48	137	117	63	16	7	1	. .
Uintah	588	3	102	223	150	81	22	7	. .	. .
District 7	1,476	2	234	548	436	182	59	15	. .	. .
Carbon	563	1	92	226	163	63	12	6	. .	. .
Emery	332	. .	45	118	103	52	13	1	. .	. .
Grand	205	. .	46	66	64	23	4	2	. .	. .
San Juan	376	1	51	138	106	44	30	6	. .	. .

TABLE A-9

LIVE BIRTHS BY AGE OF MOTHER BY RACE AND BIRTH ORDER OF CHILD: UTAH, 1978

Race and Birth Order of Child	Total	Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Not Stated
Total all races	38,811	39	4,377	14,420	11,575	5,969	2,021	387	22	1
1st child	12,617	38	3,526	6,662	1,917	399	66	8	1	. .
2nd child	9,930	1	756	5,290	3,095	676	100	11	. .	1
3rd child	6,853	. .	69	1,982	3,384	1,200	200	18	. .	. .
4th child	4,335	. .	8	389	2,117	1,476	311	31	3	. .
5th child	2,407	. .	. .	61	761	1,152	381	51	1	. .
6th and over	2,598	. .	. .	10	286	1,056	962	268	16	. .
Not stated	71	. .	18	26	15	10	1	. .	1	. .
White	37,433	35	4,169	13,922	11,151	5,801	1,961	372	21	1
1st child	12,129	34	3,368	6,450	1,823	383	63	7	1	. .
2nd child	9,544	1	716	5,108	2,965	646	97	10	. .	1
3rd child	6,634	. .	63	1,904	3,303	1,159	189	16	. .	. .
4th child	4,217	. .	6	373	2,056	1,450	299	30	3	. .
5th child	2,341	. .	. .	54	732	1,131	373	50	1	. .
6th and over	2,510	. .	. .	9	264	1,023	939	259	16	. .
Not stated	58	. .	16	24	8	9	1	. .	. .	. .
Black	218	1	39	102	55	16	4	1	. .	. .
1st child	92	1	29	49	11	2	. .	. .	. .	. .
2nd child	70	. .	6	40	20	4	. .	. .	. .	. .
3rd child	25	. .	3	8	9	5	. .	. .	. .	. .
4th child	14	. .	. .	4	6	2	2	. .	. .	. .
5th child	13	. .	. .	1	7	3	1	1	. .	. .
6th and over	2	. .	. .	. .	1	.	1	. .	. .	. .
Not stated	2	. .	1	. .	1	. .	. .	. .	. .	. .
Indian	556	3	112	214	143	55	21	8	. .	. .
1st child	174	3	81	71	17	1	1	. .	. .	. .
2nd child	152	. .	28	82	39	3	. .	. .	. .	. .
3rd child	94	. .	1	46	33	12	2	. .	. .	. .
4th child	48	. .	2	10	25	9	1	1	. .	. .
5th child	29	. .	. .	4	14	9	2	. .	. .	. .
6th and over	57	. .	. .	. .	14	21	15	7	. .	. .
Not stated	2	. .	. .	1	1	. .	. .	. .	. .	. .
Other nonwhite	550	. .	49	165	208	91	31	6	. .	. .
1st child	209	. .	42	86	65	13	2	1	. .	. .
2nd child	152	. .	6	54	65	23	3	1	. .	. .
3rd child	92	. .	1	21	36	24	8	2	. .	. .
4th child	49	. .	. .	2	26	12	9	. .	. .	. .
5th child	21	. .	. .	2	7	9	3	. .	. .	. .
6th and over	25	. .	. .	. .	7	10	6	2	. .	. .
Not stated	2	. .	. .	. .	2	. .	. .	. .	. .	. .
Not stated	54	. .	8	17	18	6	4	. .	1	. .
1st child	13	. .	6	6	1	. .	. .	. .	. .	. .
2nd child	12	. .	. .	6	6	. .	. .	. .	. .	. .
3rd child	8	. .	1	3	3	. .	1	. .	. .	. .
4th child	7	. .	. .	. .	4	3	. .	. .	. .	. .
5th child	3	. .	. .	. .	1	. .	2	. .	. .	. .
6th and over	4	. .	. .	1	. .	2	1	. .	. .	. .
Not stated	7	. .	1	1	3	1	. .	. .	1	. .

TABLE A-10

LIVE BIRTHS BY AGE OF MOTHER, RACE OF CHILD, AND MONTH PRENATAL CARE BEGAN: UTAH, 1978

Age of Mother by Race of Child	Total Live Births	Live Births by Month Prenatal Care Began										
		None	1	2	3	4	5	6	7	8	9	Not Stated
All ages, races	38,811	131	2,404	17,100	11,549	3,798	1,528	709	425	242	103	822
Under 15	39	2	1	9	10	4	3	3	. .	2	. .	5
15-19	4,377	30	243	1,452	1,220	611	364	173	105	40	16	123
20-24	14,420	44	932	6,631	4,102	1,369	518	236	149	98	33	308
25-29	11,575	23	730	5,279	3,584	1,034	361	154	90	60	37	223
30-34	5,969	14	385	2,699	1,879	519	173	98	54	25	14	109
35-39	2,021	15	94	877	630	205	90	33	19	12	3	43
40-44	387	3	17	144	118	53	17	12	8	5	. .	10
45 and over	22	. .	2	9	6	3	1	. .	. .	. .	. .	1
Not stated	1	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .
White	37,433	93	2,325	16,702	11,231	3,643	1,438	645	383	210	82	681
Under 15	35	2	1	8	9	4	2	3	. .	2	. .	4
15-19	4,169	24	237	1,409	1,170	585	344	155	95	34	15	101
20-24	13,922	32	901	6,487	3,987	1,311	482	217	142	85	27	251
25-29	11,151	18	702	5,149	3,488	984	334	139	78	52	28	179
30-34	5,801	8	374	2,638	1,840	503	169	89	47	22	10	101
35-39	1,961	7	91	860	618	200	88	31	14	10	2	40
40-44	372	2	17	142	113	53	17	11	7	5	. .	5
45 and over	21	. .	2	9	6	3	1	. .	. .	. .	. .	. .
Not stated	1	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .
Black	218	3	9	68	65	30	20	10	6	3	. .	4
Under 15	1	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .
15-19	39	1	1	6	12	9	4	3	2	1	. .	. .
20-24	102	2	5	34	30	10	10	4	3	. .	. .	4
25-29	55	. .	2	20	14	8	5	3	1	2	. .	. .
30-34	16	. .	. .	7	7	2	. .	. .	. .	. .	. .	. .
35-39	4	. .	1	1	1	1	. .	. .	. .	. .	. .	. .
40-44	1	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Indian	556	31	27	134	104	48	36	28	22	17	13	96
Under 15	3	. .	. .	1	1	. .	. .	. .	. .	. .	. .	1
15-19	112	5	2	26	21	11	9	11	5	2	. .	20
20-24	214	9	10	53	41	22	16	7	2	9	5	40
25-29	143	4	8	37	26	12	9	6	8	4	4	25
30-34	55	6	6	14	11	3	1	3	4	. .	3	4
35-39	21	7	1	3	2	. .	1	. .	2	2	1	2
40-44	8	. .	. .	. .	2	. .	. .	1	1	. .	. .	4
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Other nonwhite	550	4	40	186	133	71	32	23	13	11	8	29
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	49	. .	3	11	14	5	6	3	3	2	1	1
20-24	165	1	16	53	38	25	9	8	2	4	1	8
25-29	208	1	16	68	53	28	13	5	2	2	5	15
30-34	91	. .	4	39	20	10	3	5	3	3	1	3
35-39	31	1	1	13	6	3	1	2	3	. .	. .	1
40-44	6	1	. .	2	2	. .	. .	. .	. .	. .	. .	1
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	54	. .	3	10	16	6	2	3	1	1	. .	12
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	8	. .	. .	. .	3	1	1	1	. .	1	. .	1
20-24	17	. .	. .	4	6	1	1	. .	. .	. .	. .	5
25-29	18	. .	2	5	3	2	. .	1	1	. .	. .	4
30-34	6	. .	1	1	1	1	. .	1	. .	. .	. .	1
35-39	4	. .	. .	. .	3	1	. .	. .	. .	. .	. .	. .
40-44	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
45 and over	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1

TABLE A-11

LIVE BIRTHS BY AGE OF MOTHER, RACE OF CHILD, AND PRENATAL VISITS: UTAH, 1978

Race and Age of Mother	Live Births by Number of Prenatal Visits								
	Total	None	1-5	6-9	10-14	15-18	19-27	27+	Not Stated
Total races, ages	38,811	169	2,287	9,711	23,680	1,776	270	35	883
Under 15	39	3	8	10	10	2	1	. .	5
15-19	4,377	35	453	1,254	2,265	184	35	8	143
20-24	14,420	59	785	3,574	8,939	658	90	8	307
25-29	11,575	32	581	2,798	7,272	553	83	12	244
30-34	5,969	19	309	1,442	3,749	275	48	4	123
35-39	2,021	16	121	515	1,215	93	11	3	47
40-44	387	5	30	111	214	11	2	. .	14
45 and over	22	. .	. .	6	16	. .	. .	. .	. .
Not stated	1	. .	. .	1	. .	. .	. .	. .	. .
White	37,433	116	2,077	9,375	23,067	1,733	260	33	772
Under 15	35	3	8	9	9	1	1	. .	4
15-19	4,169	27	412	1,201	2,186	180	34	7	122
20-24	13,922	40	713	3,451	8,720	640	87	8	263
25-29	11,151	24	527	2,688	7,071	541	80	11	209
30-34	5,801	12	278	1,409	3,668	267	45	4	118
35-39	1,961	7	111	501	1,190	93	11	3	45
40-44	372	3	28	109	208	11	2	. .	11
45 and over	21	. .	. .	6	15	. .	. .	. .	. .
Not stated	1	. .	. .	1	. .	. .	. .	. .	. .
Black	218	4	21	55	123	6	2	. .	7
Under 15	1	. .	. .	1	. .	. .	. .	. .	. .
15-19	39	1	3	17	16	. .	. .	. .	2
20-24	102	3	10	22	58	4	1	. .	4
25-29	55	. .	7	12	35	. .	. .	. .	1
30-34	16	. .	1	2	10	2	1	. .	. .
35-39	4	. .	. .	1	3	. .	. .	. .	. .
40-44	1	. .	. .	. .	1	. .	. .	. .	. .
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .
Indian	556	44	115	132	171	11	6	1	76
Under 15	3	. .	. .	. .	1	1	. .	. .	1
15-19	112	7	26	20	38	1	1	1	18
20-24	214	14	45	51	66	6	1	. .	31
25-29	143	7	27	45	40	2	2	. .	20
30-34	55	7	10	12	20	1	2	. .	3
35-39	21	8	5	2	5	. .	. .	. .	1
40-44	8	1	2	2	1	. .	. .	. .	2
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .
Other nonwhite	550	4	68	135	300	21	1	1	20
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	49	. .	9	15	22	3	. .	. .	. .
20-24	165	1	15	44	93	6	. .	. .	6
25-29	208	1	19	50	117	8	1	1	11
30-34	91	. .	20	17	49	4	. .	. .	1
35-39	31	1	5	9	15	. .	. .	. .	1
40-44	6	1	. .	. .	4	. .	. .	. .	1
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	54	1	6	14	19	5	1	. .	8
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	8	. .	3	1	3	. .	. .	. .	1
20-24	17	1	2	6	2	2	1	. .	3
25-29	18	. .	1	3	9	2	. .	. .	3
30-34	6	. .	. .	2	2	1	. .	. .	1
35-39	4	. .	. .	2	2	. .	. .	. .	. .
40-44	. .	. .	. .	. .	. .	. .	. .	. .	. .
45 and over	1	. .	. .	. .	1	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .

TABLE A-12

LIVE BIRTHS BY BIRTH WEIGHT, SEX, AND RACE OF CHILD: UTAH, 1978

Birth Weight of Child in Grams	Live Births by Race and Sex of Child																	
	Total			White			Black			Indian			Other Nonwhite			Not Stated		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Total	38,811	18,925	19,886	37,433	18,243	19,190	218	108	110	556	266	290	550	281	269	54	27	27
1,000 or less (2 lbs. 3 oz. or less)	101	53	48	98	51	47	2	2	. .	. .	. .	. .	1	. .	1	. .	. .	. .
1,001-1,500 (2 lbs. 4 oz.-3 lbs. 4 oz.)	186	95	91	183	92	91	1	1	. .	1	1	. .	1	1	. .	. .	. .	. .
1,501-2,000 (3 lbs. 5 oz.-4 lbs. 6 oz.)	407	207	200	393	201	192	2	2	. .	7	3	4	5	1	4	. .	. .	. .
2,001-2,500 (4 lbs. 7 oz.-5 lbs. 8 oz.)	1,495	818	677	1,436	785	651	11	6	5	25	14	11	20	11	9	3	2	1
2,501-3,000 (5 lbs. 9 oz.-6 lbs. 9 oz.)	6,303	3,600	2,703	6,006	3,435	2,571	73	35	38	95	57	38	118	67	51	11	6	5
3,001-3,500 (6 lbs. 10 oz.-7 lbs. 11 oz.)	14,945	7,839	7,106	14,400	7,556	6,844	84	45	39	213	106	107	233	125	108	15	7	8
3,501-4,000 (7 lbs. 12 oz.-8 lbs. 13 oz.)	11,407	4,913	6,494	11,055	4,758	6,297	34	15	19	171	72	99	130	60	70	17	8	9
4,001-4,500 (8 lbs. 14 oz.-9 lbs. 15 oz.)	3,281	1,179	2,102	3,202	1,156	2,046	9	1	8	31	9	22	34	11	23	5	2	3
4,501 and over (9 lbs. 16 oz. and over)	599	191	408	580	183	397	1	. .	1	9	3	6	7	4	3	2	1	1
Not stated	87	30	57	80	26	54	1	1	. .	4	1	3	1	1	. .	1	1	. .

TABLE A-13

LIVE BIRTHS BY BIRTH WEIGHT AND WEEKS GESTATION: UTAH, 1978

Weight of Child at Birth	Total Births	Live Births by Gestation Period in Weeks													
		Under 20	20-27	28-35	36	37	38	39	40	41	42	43	44	45+	Not Stated
Total	38,811	1	100	1,070	708	1,259	2,755	6,083	8,755	7,176	4,289	2,151	1,335	1,640	1,489
1,000 grams or less (2 lbs. 3 oz. or less)	101	. .	70	20	. .	1	2	1	1	1	. .	. .	. .	. .	5
1,001-1,500 grams (2 lbs. 4 oz.-3 lbs. 4 oz.)	186	. .	18	117	4	5	3	5	5	5	2	1	2	. .	19
1,501-2,000 grams (3 lbs. 5 oz.-4 lbs. 6 oz.)	407	. .	3	202	37	33	20	27	20	13	7	3	4	10	28
2,001-2,500 grams (4 lbs. 7 oz.-5 lbs. 8 ox.)	1,495	. .	1	268	145	173	192	177	159	119	72	38	31	38	82
2,501-3,000 grams (5 lbs. 9 oz.-5 lbs 8 oz.)	6,303	. .	. .	213	260	415	754	1,208	1,246	829	445	283	173	203	274
3,001-3,500 grams (6 lbs. 10 oz.-7 lbs. 11 oz.)	14,945	. .	. .	154	167	427	1,118	2,656	3,610	2,751	1,587	803	507	625	540
3,501-4,000 grams (7 lbs. 12 oz.-8 lbs. 13 oz.)	11,407	. .	. .	67	67	159	529	1,632	2,856	2,455	1,556	726	444	530	386
4,001-4,500 grams (8 lbs. 14 oz.-9 lbs. 13 oz.)	3,281	. .	. .	12	24	41	114	323	723	850	509	248	136	186	115
4,501 grams and over (9 lbs. 15 oz. and over)	599	. .	. .	5	2	4	16	47	127	145	107	44	35	48	19
Not stated	87	1	8	12	2	1	7	7	8	8	4	5	3	. .	21

TABLE A-14

LIVE BIRTHS BY AGE AND EDUCATION OF MOTHER AND NUMBER OF PREVIOUS LIVE BIRTHS: UTAH, 1978

Age of Mother	Births by Education of Mother and Previous Live Births				
	Total	Less Than High School	High School Graduation	One or More Years College	Not Stated
Total Births					
Total	38,811	4,924	14,615	19,245	27
Under 20	4,416	2,355	1,773	285	3
20-29	25,995	2,116	10,188	13,679	12
30 and over	8,399	453	2,653	5,281	12
Not stated	1	. .	1	. .	. .
No Previous Live Births					
Total	12,617	2,150	4,674	5,791	2
Under 20	3,564	1,793	1,516	254	1
20-29	8,579	347	3,050	5,181	1
30 and over	474	10	108	356	. .
Not stated	. .	. .	. .	. .	. .
1 Previous Live Birth					
Total	9,930	1,260	3,916	4,748	6
Under 20	757	494	236	26	1
20-29	8,385	740	3,455	4,185	5
30 and over	787	26	224	537	. .
Not stated	1	. .	1	. .	. .
2 Previous Live Births					
Total	6,853	698	2,672	3,479	4
Under 20	69	50	15	3	1
20-29	5,366	597	2,209	2,557	3
30 and over	1,418	51	448	919	. .
Not stated	. .	. .	. .	. .	. .
3 Previous Live Births					
Total	4,335	367	1,587	2,381	. .
Under 20	8	8	. .	. .	. .
20-29	2,506	275	1,008	1,223	. .
30 and over	1,821	84	579	1,158	. .
Not stated	. .	. .	. .	. .	. .
4 or More Previous Live Births					
Total	5,005	432	1,747	2,811	15
Under 20	. .	. .	. .	. .	. .
20-29	1,118	151	454	510	3
30 and over	3,887	281	1,293	2,301	12
Not stated	. .	. .	. .	. .	. .
Not Stated					
Total	71	17	19	35	. .
Under 20	18	10	6	2	. .
20-29	41	6	12	23	. .
30 and over	12	1	1	10	. .
Not stated	. .	. .	. .	. .	. .

TABLE A-15

LIVE BIRTHS BY AGE AND EDUCATION OF PARENTS: UTAH, 1978

Age of Parents	Total Live Births		Live Births by Education of Parents							
			Less than High School Education		High School Education		One or More Years of College		Not Stated	
	Father	Mother	Father	Mother	Father	Mother	Father	Mother	Father	Mother
State total	38,811	38,811	2,716	4,924	10,730	14,615	22,969	18,587	2,396	685
Under 15	3	39	. .	33	1	. .	1	. .	1	6
15	2	141	1	133	. .	1	. .	. .	1	7
16	26	427	23	418	. .	1	. .	. .	3	8
17	169	788	132	672	27	89	1	2	9	25
18	403	1,264	181	602	192	609	13	19	17	34
19	743	1,757	220	497	428	1,073	74	157	21	30
20-24	10,334	14,420	1,080	1,533	4,277	6,278	4,772	6,368	205	241
25-29	12,584	11,575	468	583	3,107	3,910	8,777	6,880	232	202
30-34	7,618	5,969	268	274	1,492	1,847	5,718	3,756	140	92
35-39	3,488	2,021	164	137	756	663	2,509	1,193	59	28
40-44	1,148	387	82	42	253	134	783	200	30	11
45+	498	22	62	. .	131	9	289	12	16	1
Not stated	1,795	1	35	. .	66	1	32	. .	1,662	. .

TABLE A-16

OUT-OF-WEDLOCK LIVE BIRTHS BY AGE AND EDUCATION OF PARETS: UTAH, 1978

Age of Parents	Total Live Births		Out-of-Wedlock Live Births by Education of Parents							
			Less than High School Education		High School Education		One or More Years of College		Not Stated	
	Father	Mother	Father	Mother	Father	Mother	Father	Mother	Father	Mother
Total	2,160	2,160	138	1,047	193	760	89	258	1,740	95
Under 15	. .	28	. .	23	. .	. .	. .	. .	. .	5
15	1	71	. .	67	. .	. .	. .	. .	1	4
16	5	176	2	173	. .	. .	. .	. .	3	3
17	18	201	11	175	2	18	. .	. .	5	8
18	26	296	11	163	8	117	1	3	6	13
19	40	253	14	101	13	130	2	16	11	6
20-24	158	732	44	234	60	329	16	133	38	36
25-29	90	274	11	71	30	117	24	72	25	14
30-34	56	89	9	22	15	33	15	30	17	4
35-39	19	30	6	14	4	12	7	4	2	. .
40-44	9	9	1	4	4	4	2	. .	2	1
45+	6	1	1	. .	2	. .	1	. .	2	1
Not stated	1,732	. .	28	. .	55	. .	21	. .	1,628	. .

TABLE A-17

OUT-OF-WEDLOCK LIVE BIRTHS BY AGE AND RESIDENCE OF MOTHER: UTAH, 1978

Residence of Mother	Out-of-Wedlock Births by Age of Mother								
	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Total	2,160	28	997	732	274	89	30	9	1
District 1	88	. .	46	20	19	3	. .	. .	. .
Box Elder	42	. .	29	5	7	1	. .	. .	. .
Cache	44	. .	17	13	12	2	. .	. .	. .
Rich	2	. .	. .	2	. .	. .	. .	. .	. .
District 2N	484	8	240	151	56	15	12	2	. .
Davis	169	3	100	44	11	5	6	. .	. .
Morgan	4	. .	4	. .	. .	. .	. .	. .	. .
Weber	311	5	136	107	45	10	6	2	. .
District 2S	1,126	13	511	392	141	49	13	6	1
Salt Lake	1,081	13	485	380	136	48	12	6	1
Tooele	45	. .	26	12	5	1	1	. .	. .
District 3	228	3	97	86	30	10	2	. .	. .
Summit	5	. .	2	2	1	. .	. .	. .	. .
Utah	214	3	89	82	28	10	2	. .	. .
Wasatch	9	. .	6	2	1	. .	. .	. .	. .
District 4	38	. .	14	14	7	2	1	. .	. .
Juab	6	. .	4	1	1	. .	. .	. .	. .
Millard	4	. .	. .	3	1	. .	. .	. .	. .
Piute	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sanpete	14	. .	6	4	3	1	. .	. .	. .
Sevier	14	. .	4	6	2	1	1	. .	. .
Wayne	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 5	47	. .	21	14	9	3	. .	. .	. .
Beaver	1	. .	. .	1	. .	. .	. .	. .	. .
Garfield	3	. .	2	. .	. .	1	. .	. .	. .
Iron	13	. .	8	2	2	1	. .	. .	. .
Kane	3	. .	1	2	. .	. .	. .	. .	. .
Washington	27	. .	10	9	7	1	. .	. .	. .
District 6	47	3	24	15	3	. .	1	1	. .
Daggett	1	. .	. .	1	. .	. .	. .	. .	. .
Duchesne	10	. .	5	4	1	. .	. .	. .	. .
Uintah	36	3	19	10	2	. .	1	1	. .
District 7	102	1	44	40	9	7	1	. .	. .
Carbon	41	1	19	17	1	3	. .	. .	. .
Emery	6	. .	2	1	3	. .	. .	. .	. .
Grand	11	. .	6	4	1	. .	. .	. .	. .
San Juan	44	. .	17	18	4	4	1	. .	. .

TABLE A-18

LIVE BIRTHS BY AGE AND MARITAL STATUS OF MOTHER AND RACE OF CHILD: UTAH, 1978

Marital Status and Race	Total Live Births	Live Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not Stated
All births	38,811	39	4,377	14,420	11,575	5,969	2,021	387	22	1
White	37,433	35	4,169	13,922	11,151	5,801	1,961	372	21	1
Black	218	1	39	102	55	16	4	1	. .	. .
Indian	556	3	112	214	143	55	21	8	. .	. .
Other nonwhite	550	. .	49	165	208	91	31	6	. .	. .
Not stated	54	. .	8	17	18	6	4	. .	1	. .
Births in wedlock	36,651	11	3,380	13,688	11,301	5,880	1,991	378	21	1
White	35,513	10	3,263	13,279	10,914	5,726	1,935	364	21	1
Black	136	. .	7	72	39	13	4	1	. .	. .
Indian	428	1	66	163	127	46	18	7	. .	. .
Other nonwhite	531	. .	41	160	205	89	30	6	. .	. .
Not stated	43	. .	3	14	16	6	4	. .	. .	. .
Births not in wedlock	2,160	28	997	732	274	89	30	9	1	. .
White	1,920	25	906	643	237	75	26	8	. .	. .
Black	82	1	32	30	16	3	. .	. .	. .	. .
Indian	128	2	46	51	16	9	3	1	. .	. .
Other nonwhite	19	. .	8	5	3	2	1	. .	. .	. .
Not stated	11	. .	5	3	2	. .	. .	. .	1	. .

TABLE A-19

BIRTHS TO UTAH RESIDENTS BY AGE OF MOTHER BY BIRTH WEIGHT OF CHILD: UTAH, 1978

Weight of Child at Birth	Total Live Births	Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not Stated
Total	38,811	39	4,377	14,420	11,575	5,969	2,021	387	22	1
1,000 grams or less (2 lbs 3 oz. or less)	101	. .	24	32	28	12	5	. .	. .	. .
1,001-1,500 grams (2 lbs. 4 oz. to 3 lbs. 4 oz.)	186	2	34	62	51	30	6	1	. .	. .
1,500-2,000 grams (3 lbs. 5 oz. to 4 lbs. 6 oz.)	407	1	75	148	108	48	20	7	. .	. .
2,001-2,500 grams (4 lbs. 7 oz. to 5 lbs. 8 oz.)	1,495	2	235	568	387	198	81	22	2	. .
2,501-3,000 grams (5 lbs. 9 oz. to 6 lbs. 9 oz.)	6,303	11	936	2,636	1,661	765	244	47	3	. .
3,001-3,500 grams (5 lbs. 9 oz. to 6 lbs. 9 oz.)	14,945	16	1,787	5,706	4,514	2,147	649	115	10	1
3,501-4,000 grams (7 lbs. 12 oz., to 8 lbs. 13 oz.)	11,407	5	1,042	4,118	3,535	1,903	675	126	3	. .
4,001-4,500 grams (8 lbs. 14 oz. to 9 lbs. 15 oz.)	3,281	2	201	973	1,065	716	265	56	3	. .
4,501 grams and over (9 lbs. 15 oz. and over)	599	. .	34	149	189	144	69	13	1	. .
Not stated	87	. .	9	28	37	6	7	. .	. .	. .

TABLE A-20

LIVE BIRTHS TO UTAH RESIDENTS BY BIRTH WEIGHT WHERE THERE WAS MENTION OF ONE OR MORE BIRTH COMPLICATIONS: UTAH, 1978

Birth Weight	All Live Births	Births by Conditions Noted			
		Complications Related to Pregnancy	Complications Not Related to Pregnancy	Congenital Anomaly	At Least One Condition
Total	38,811	5,858	1,510	994	7,295
1,000 grams or less (2 lbs. 4 oz.-3 lbs. 4 oz.)	101	92	15	14	92
1,001-1,500 grams (2 lbs. 4 oz.-3 lbs. 4 oz.)	186	146	28	17	153
1,501-2,000 grams (2 lbs. 4 oz.-3 lbs. 4 oz.)	407	310	76	51	329
2,001-2,500 grams (4 lbs. 7 oz.-5 lbs. 8 oz.)	1,495	664	122	110	747
2,501-3,000 grams (5 lbs. 9 oz.-6 lbs. 9 oz.)	6,303	1,169	284	198	1,436
3,001-3,500 grams (6 lbs. 10 oz.-7 lbs. 11 oz.)	14,945	1,702	498	294	2,238
3,501-4,000 grams (7 lbs. 12 oz.-8 lbs. 13 oz.)	11,407	1,217	350	213	1,606
4,001-4,500 grams (8 lbs. 14 oz.-9 lbs. 14 oz.)	3,281	415	103	64	520
4,501 grams and over (9 lbs. 15 oz. and over)	599	99	30	17	125
Not stated	87	44	4	16	49

TABLE A-21

LIVE BIRTHS BY MONTH PRENATAL CARE BEGAN WITH MENTION OF COMPLICATION, BIRTH INJURY OR CONGENITAL ANOMALY: UTAH, 1978

Month Prenatal Care Began	Total Live Births	Births by Condition			
		Complication Related to Pregnancy	Complication Not Related to Pregnancy	Congenital Anomaly	At Least One Condition
Total births	38,811	5,858	1,510	994	7,295
No care	131	17	9	5	24
1	2,404	412	118	62	509
2	17,100	2,548	669	430	3,179
3	11,549	1,708	420	285	2,118
4	3,798	561	125	93	686
5	1,528	230	59	51	287
6	709	101	38	17	139
7	425	64	25	19	94
8	242	40	11	11	50
9	103	11	4	2	15
Not stated	822	166	32	19	194

TABLE A-22

BIRTHS TO RESIDENTS BY AGE OF MOTHER WITH MENTION OF COMPLICATION AT BIRTH: UTAH, 1978

Condition	Total	Births with Mention of Complication by Age of Mother							
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Complications related to pregnancy	5,858	6	747	2,092	1,652	920	355	80	6
Complication not related to pregnancy	1,510	2	158	520	452	247	106	25	. .
Congenital anomaly	994	. .	136	362	284	147	48	16	1
At least one condition	7,295	7	902	2,617	2,079	1,146	440	98	6

TABLE A-23

LIVE BIRTHS BY RESIDENCE OF MOTHER WITH MENTION OF COMPLICATION OR CONGENITAL ANOMALY: UTAH, 1978

District and County	Complications Related to Pregnancy	Complications Not Related to Pregnancy	Congenital Anomalies	At Least One Condition
Total	5,858	1,510	994	7,295
District 1	482	91	56	568
Box Elder	138	22	26	163
Cache	338	66	30	397
Rich	6	3	. .	8
District 2N	1,098	267	219	1,409
Davis	583	135	144	762
Morgan	9	5	4	16
Weber	506	127	71	631
District 2S	2,763	725	286	3,287
Salt Lake	2,624	673	271	3,115
Tooele	139	52	15	172
District 3	984	329	216	1,283
Summit	21	7	3	26
Utah	933	310	210	1,223
Wasatch	30	12	3	34
District 4	155	27	24	184
Juab	12	2	1	13
Millard	32	5	6	37
Piute	3	. .	1	4
Sanpete	55	9	7	64
Sevier	51	11	7	62
Wayne	2	. .	2	4
District 5	52	25	58	117
Beaver	17	6	4	19
Garfield	3	2	2	6
Iron	8	3	8	17
Kane	6	1	3	10
Washington	18	13	41	65
District 6	110	15	21	133
Daggett	2	. .	1	3
Duchesne	45	7	7	53
Uintah	63	8	13	77
District 7	214	31	114	314
Carbon	75	8	59	125
Emery	47	7	31	70
Grand	10	5	9	22
San Juan	82	11	15	97

TABLE A-24

BIRTHS TO UTAH RESIDENTS BY 5-MINUTE APGAR SCORE AND BIRTH WEIGHT OF CHILD: UTAH, 1978

Weight of Child at Birth	Total Live Births	Births by 5-Minute APGAR Score											
		00	01	02	03	04	05	06	07	08	09	10	Not Stated
Total	38,811	33	50	46	58	96	161	411	969	4,462	26,947	5,005	573
1,000 grams or less (2 lbs. 3 oz. or less)	101	12	15	8	11	14	4	8	4	5	4	2	14
1,001-1,500 grams (2 lbs. 4 oz. to 3 lbs. 4 oz.)	186	4	5	6	8	8	25	32	29	26	28	3	12
1,501-2,000 grams (3 lbs. 5 oz. to 4 lbs. 6 oz.)	407	2	9	5	3	11	14	43	65	103	121	12	19
2,001-2,500 grams (4 lbs. 7 oz. to 5 lbs. 8 oz.)	1,495	1	1	5	5	10	25	53	110	355	784	116	30
2,501-3,000 grams (5 lbs. 9 oz. to 6 lbs. 9 oz.)	6,303	3	4	6	8	13	25	82	187	917	4,208	767	83
3,001-3,500 grams (6 lbs. 10 oz. to 7 lbs. 11 oz.)	14,945	3	6	8	9	16	32	87	266	1,495	10,782	2,063	178
3,501-4,000 grams (7 lbs. 12 oz. to 8 lbs. 13 oz.)	11,407	2	3	3	7	13	22	67	227	1,118	8,235	1,560	150
4,001-4,500 grams (8 lbs. 14 oz. to 9 lbs. 15 oz.)	3,281	. .	. .	1	1	4	7	27	57	356	2,365	408	55
4,501 grams and over (9 lbs. 15 oz. and over)	599	1	1	. .	. .	. .	4	8	20	83	405	69	8
Not stated	87	5	6	4	6	7	3	4	4	4	15	5	24

TABLE A-25

LIVE BIRTHS BY COUNTY AND DISTRICT OF RESIDENCE BY AGE OF MOTHER, WHERE MOTHER IS OF SPANISH ORIGIN: UTAH, 1978

County and City of Residence	Total	Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not Stated
Total	1,364	7	302	476	360	159	53	7	. .	. .
District 1	55	. .	12	16	20	6	1	. .	. .	. .
Box Elder	30	. .	11	4	12	2	1	. .	. .	. .
Cache	24	. .	1	12	8	3	. .	. .	. .	. .
Rich	1	. .	. .	. .	. .	1	. .	. .	. .	. .
District 2N	311	4	80	99	82	30	14	2	. .	. .
Davis	120	. .	32	33	35	11	9	. .	. .	. .
Morgan	2	. .	2	. .	. .	. .	. .	. .	. .	. .
Weber	189	4	46	66	47	19	5	2	. .	. .
District 2S	749	3	171	273	180	88	30	4	. .	. .
Salt Lake	687	3	157	248	169	81	26	3	. .	. .
Tooele	62	. .	14	25	11	7	4	1	. .	. .
District 3	122	. .	16	42	43	18	3	. .	. .	. .
Summit	2	. .	. .	. .	2	. .	. .	. .	. .	. .
Utah	118	. .	15	41	41	18	3	. .	. .	. .
Wasatch	2	. .	1	1	. .	. .	. .	. .	. .	. .
District 4	16	. .	1	4	6	4	1	. .	. .	. .
Juab	1	. .	. .	. .	1	. .	. .	. .	. .	. .
Millard	1	. .	. .	. .	. .	1	. .	. .	. .	. .
Piute	1	. .	. .	. .	1	. .	. .	. .	. .	. .
Sanpete	11	. .	1	4	3	2	1	. .	. .	. .
Sevier	2	. .	. .	. .	1	1	. .	. .	. .	. .
Wayne	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 5	12	. .	3	5	2	1	1	. .	. .	. .
Beaver	1	. .	. .	. .	1	. .	. .	. .	. .	. .
Garfield	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Iron	5	. .	1	3	. .	. .	1	. .	. .	. .
Kane	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Washington	6	. .	2	2	1	1	. .	. .	. .	. .
District 6	22	. .	2	6	8	4	1	1	. .	. .
Daggett	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Duchesne	8	. .	. .	. .	4	3	1	. .	. .	. .
Uintah	14	. .	2	6	4	1	. .	1	. .	. .
District 7	77	. .	17	31	19	8	2	. .	. .	. .
Carbon	43	. .	8	18	10	5	2	. .	. .	. .
Emery	4	. .	1	3	. .	. .	. .	. .	. .	. .
Grand	17	. .	4	5	6	2	. .	. .	. .	. .
San Juan	13	. .	4	5	3	1	. .	. .	. .	. .

TABLE A-26

LIVE BIRTHS BY AGE OF MOTHER AND MONTH PRENATAL CARE BEGAN, WHERE MOTHER IS OF SPANISH ORIGIN: UTAH, 1978

Age of Mother	Total	Births by Month Prenatal Care Began										
		No Care	1	2	3	4	5	6	7	8	9	Not Stated
Total	1,364	6	93	397	383	188	100	55	47	29	10	56
Under 15	7	. .	. .	1	2	. .	. .	2	. .	1	. .	1
15-19	302	2	14	56	72	63	39	19	16	10	2	9
20-24	476	3	35	159	132	48	30	14	20	9	. .	26
25-29	360	1	28	115	115	42	21	9	5	8	5	11
30-34	159	. .	12	47	47	27	8	7	3	. .	3	5
35-39	53	. .	4	17	14	7	1	4	2	. .	. .	4
40-44	7	. .	. .	2	1	1	1	. .	1	1	. .	. .

TABLE A-27

LIVE BIRTHS BY AGE OF MOTHER AND NUMBER OF PRENATAL VISITS, WHERE MOTHER IS OF SPANISH ORIGIN: UTAH, 1978

Age of Mother	Total	Births by Number of Prenatal Visits							
		No Care	1-5	6-9	10-14	15-18	19-27	27+	Not Stated
Total	1,364	13	176	400	666	45	8	1	55
Under 15	7	. .	2	3	. .	. .	1	. .	1
15-19	302	4	55	106	118	7	5	. .	7
20-24	476	5	56	121	251	16	1	. .	26
25-29	360	2	37	104	187	15	. .	1	14
30-34	159	1	18	43	87	6	. .	. .	4
35-39	53	. .	8	19	21	1	1	. .	3
40-44	7	1	. .	4	2	. .	. .	. .	. .

TABLE A-28

LIVE BIRTHS BY AGE AND MARITAL STATUS OF MOTHER AND RACE OF CHILD, WHERE MOTHER IS OF SPANISH ORIGIN: UTAH, 1978

Marital Status of Mother and Race of Child	Total	Live Births by Age of Mother							
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+
All births	1,364	7	302	476	360	150	53	7	. .
White	1,278	7	282	446	334	150	52	7	. .
Black	14	. .	5	4	5	. .	. .	. .	. .
Indian	35	. .	10	12	11	2	. .	. .	. .
Other nonwhite	33	. .	4	12	10	6	1	. .	. .
Not stated	4	. .	1	2	. .	1	. .	. .	. .
Births in Wedlock	1,042	1	159	378	314	142	44	4	. .
White	973	1	149	353	290	133	43	4	. .
Black	6	. .	. .	2	4	. .	. .	. .	. .
Indian	29	. .	6	11	10	2	. .	. .	. .
Other nonwhite	32	. .	4	11	10	6	1	. .	. .
Not stated	2	. .	. .	1	. .	1	. .	. .	. .
Out of Wedlock	322	6	143	98	46	17	9	3	. .
White	305	6	133	93	44	17	9	3	. .
Black	8	. .	5	2	1	. .	. .	. .	. .
Indian	6	. .	4	1	1	. .	. .	. .	. .
Other nonwhite	1	. .	. .	1	. .	. .	. .	. .	. .
Not stated	2	. .	1	1	. .	. .	. .	. .	. .

TABLE A-29

RESIDENT FETAL DEATHS BY CAUSE AND SEX: UTAH, 1978

Cause of Fetal Death per Eighth Revision of the International Classification of Disease		Total	Sex of Fetus		
			Male	Female	Unknown
740-779.9	Total fetal deaths	283	141	141	1
740-759	Congenital anomaleis	17	9	8	. .
740	Anencephalus	6	3	3	. .
741	Spina biffida	1	. .	1	. .
742	Congenital hydrosephalus	1	. .	1	. .
759	Congenital syndromes affecting multiple systems	9	6	3	. .
760,761	Maternal conditions unrelated to pregnancy	20	11	9	. .
760	Chronic hypertension	6	4	2	. .
761.1	Diabetes mellitus	4	1	3	. .
761.2	Influenza	1	1	. .	. .
761.5	Injury	2	2	. .	. .
761.6	Operation	1	. .	1	. .
761.7	Chemical substances transmitted through placenta	1	1	. .	. .
761.9	Other maternal causes	5	2	3	. .
762-769	Complications related to pregnancy and childbirth	36	18	18	. .
762	Toxemia of pregnancy	10	3	7	. .
766	Difficult labor with malposition of fetus	6	3	3	. .
768	Difficult labor with other and unspecified complications	2	1	1	. .
769	Other complications of pregnancy and childbirth	18	11	7	. .
770,771	Placenta and cord conditions	109	56	53	. .
770.1	Premature separation of placenta	24	9	15	. .
770.2	Placenta infarction	3	1	2	. .
770.8	Other placental conditions	2	1	1	. .
770.9	Unspecified placental conditions	13	6	7	. .
771.0	Compression of cord	7	3	4	. .
771.1	Prolapse of cord without mention of compression	1	. .	1	. .
771.9	Other cord conditions	59	36	23	. .
773	Termination of pregnancy	2	1	1	. .
775	Hemolytic disease of newborn without mention of kernicterus	4	2	2	. .
776	Anoxic and hypoxic conditions not elsewhere classifiable	16	6	10	. .
777-779	All other conditions	79	38	40	1
777	Immaturity, unqualified	11	6	5	. .
778	Other conditions of fetus	6	3	3	. .
779.0	Maceration	3	1	2	. .
779.9	Other	59	28	30	1

TABLE A-30

FETAL DEATHS BY AGE AND RESIDENCE OF MOTHER: UTAH, 1978

Mother's Residence	Total	Fetal Deaths by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unknown
Total	283	1	33	83	72	60	21	9	. .	4
District 1	18	. .	1	5	4	6	1	1	. .	. .
Box Elder	9	. .	. .	2	3	3	. .	1	. .	. .
Cache	9	. .	1	3	1	3	1	. .	. .	. .
Rich	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 2N	54	. .	11	17	8	9	6	1	. .	2
Davis	25	. .	6	7	4	4	3	. .	. .	1
Morgan	1	. .	. .	. .	. .	. .	. .	1	. .	. .
Weber	28	. .	5	10	4	5	3	. .	. .	1
District 2S	123	. .	13	30	35	31	8	6	. .	. .
Salt Lake	116	. .	13	29	34	26	8	6	. .	. .
Tooele	7	. .	. .	1	1	5	. .	. .	. .	. .
District 3	59	. .	5	24	17	7	4	. .	. .	2
Summit	2	. .	. .	1	1	. .	. .	. .	. .	. .
Utah	54	. .	5	22	14	7	4	. .	. .	2
Wasatch	3	. .	. .	1	2	. .	. .	. .	. .	. .
District 4	7	. .	. .	3	1	2	1	. .	. .	. .
Juab	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Millard	3	. .	. .	2	. .	1	. .	. .	. .	. .
Piute	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sanpete	3	. .	. .	. .	1	1	1	. .	. .	. .
Sevier	1	. .	. .	1	. .	. .	. .	. .	. .	. .
Wayne	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 5	9	. .	1	1	3	2	1	1	. .	. .
Beaver	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Garfield	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Iron	7	. .	1	1	3	1	1	. .	. .	. .
Kane	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Washington	2	. .	. .	. .	. .	1	. .	1	. .	. .
District 6	6	. .	1	1	2	2	. .	. .	. .	. .
Daggett	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Duchesne	3	. .	1	. .	2	. .	. .	. .	. .	. .
Uintah	3	. .	. .	1	. .	2	. .	. .	. .	. .
District 7	7	1	1	2	2	1	. .	. .	. .	. .
Carbon	3	1	. .	1	1	. .	. .	. .	. .	. .
Emery	1	. .	. .	. .	. .	1	. .	. .	. .	. .
Grand	1	. .	1	. .	. .	. .	. .	. .	. .	. .
San Juan	2	. .	. .	1	1	. .	. .	. .	. .	. .

TABLE A-31

INFANT MORTALITY FOR SELECTED CAUSES BY AGE, RACE, AND SEX: UTAH 1978

Cause of Death per Eighth Revision of the International Classification of Disease	Sex	Total	Race		Age				
			White	Non-white	Under 1 Day	1-6 Days	7-27 Days	Total Under 28 Days	28 Days -1 Year
Total deaths, all causes	T	443	424	19	155	101	46	302	141
	M	248	238	10	84	51	23	158	90
	F	195	186	9	71	50	23	144	51
Intestinal infectious diseases (000-009)	M	. .	. .	. .	. .	. .	. .	. .	. .
	F	2	2	. .	. .	. .	2	2	. .
Other infective and parasitic diseases (010-136)	M	4	4	. .	1	1	. .	2	2
	F	4	3	1	. .	3	1	4	. .
Meningitis (320)	M	8	7	1	. .	. .	. .	. .	8
	F	2	2	. .	. .	1	. .	1	1
Diseases of the respiratory system, except influenza and pneumonia (460-519)	M	5	4	1	. .	. .	. .	. .	5
	F	3	3	. .	. .	1	. .	1	2
Influenza and pneumonia (470-474, 480-486)	M	6	4	2	. .	1	1	2	4
	F	9	8	1	1	. .	. .	1	8
Congenital anomalies (740-759)	M	67	66	1	27	17	10	54	13
	F	56	53	3	16	16	6	38	18
Congenital hydrocephalus (742)	M	4	4	. .	3	. .	. .	3	1
	F	2	2	. .	1	. .	1	2	. .
Congenital anomalies of heart (746)	M	14	14	. .	2	6	4	12	2
	F	18	15	3	1	6	3	10	8
Other congenital anomalies of circulatory system (747)	M	9	9	. .	. .	4	4	8	1
	F	6	6	. .	. .	3	2	5	1
Other congenital anomalies of digestive system (751)	M	3	3	. .	3	. .	. .	3	. .
	F	2	2	. .	1	. .	. .	1	1
Congenital anomalies of urinary system (753)	M	5	5	. .	4	1	. .	5	. .
	F	1	1	. .	1	. .	. .	1	. .
Congenital syndromes affecting multiple systems (759)	M	14	14	. .	8	2	1	11	3
	F	10	10	. .	4	. .	2	6	4
All other congenital anomalies	M	20	19	1	9	4	1	14	6
	F	17	17	. .	8	5	. .	13	4
Certain diseases of early infancy (760-778)	M	99	96	3	54	32	9	95	4
	F	84	81	3	49	26	8	83	1
Birth injury (764-768, 772)	M	9	9	. .	4	1	3	8	1
	F	2	2	. .	. .	. .	1	1	1
Other complications of pregnancy and childbirth (769)	M	10	10	. .	5	5	. .	10	. .
	F	8	8	. .	7	. .	1	8	. .
Conditions of the placenta (770)	M	7	7	. .	5	1	1	7	. .
	F	2	2	. .	2	. .	. .	2	. .
Hemolytic disease of newborn without mention of kernicterus (775)	M	2	2	. .	1	1	. .	2	. .
	F	. .	. .	. .	. .	. .	. .	. .	. .
Hyaline membrane disease (776.1)	M	15	15	. .	7	6	1	14	1
	F	15	15	. .	6	6	3	15	. .
Respiratory distress syndrom (776.2)	M	18	17	1	7	9	1	17	1
	F	18	17	1	7	10	1	18	. .
Asphyxia of newborn, unspecified (776.9)	M	9	8	1	6	2	. .	8	1
	F	19	18	1	14	5	. .	19	. .
Immaturity, unqualified (777)	M	13	12	1	12	1	. .	13	. .
	F	8	8	. .	7	1	. .	8	. .
Remainder of 760-778	M	16	16	. .	9	4	3	16	. .
	F	12	11	1	6	4	2	12	. .
Cause unknown (includes sudden death, and found dead) (795, 796)	M	40	39	1	. .	. .	. .	. .	40
	F	15	15	. .	1	1	. .	2	13
Accidents (E800-E949)	M	7	7	. .	. .	. .	. .	. .	7
	F	6	6	. .	. .	. .	1	1	5
Residual	M	12	11	1	2	. .	3	5	7
	F	14	13	1	4	2	5	11	3

TABLE A-32

INFANT, NEONATAL, AND PERINATAL MORTALITY BY RESIDENCE OF MOTHER: UTAH, 1978

District and County	Infant Mortality						
			Neonatal Mortality				
				Perinatal Mortality			
	Total Deaths Under 1 Year of Age (Excluding Fetal)	28 Days to Under 1 Year	7-27 Days	1-6 Days	1-24 Hours	Under 1 Hr.	Fetal Deaths
Total	443	141	46	101	102	53	283
District 1	32	10	2	9	5	6	18
Box Elder	14	6	2	3	2	1	9
Cache	16	4	. .	4	3	5	9
Rich	2	. .	. .	2	. .	. .	. .
District 2N	89	28	7	22	17	15	54
Davis	46	12	4	12	10	8	25
Morgan	2	1	. .	1	. .	. .	1
Weber	41	15	3	9	7	7	28
District 2S	165	54	17	35	36	23	123
Salt Lake	158	51	16	33	36	22	116
Tooele	7	3	1	2	. .	1	7
District 3	92	30	7	23	26	6	59
Summit	. .	. .	. .	. .	. .	. .	2
Utah	90	29	7	22	26	6	54
Wasatch	2	1	. .	1	. .	. .	3
District 4	16	5	3	5	3	. .	7
Juab	1	. .	. .	. .	1	. .	. .
Millard	2	1	. .	1	. .	. .	3
Piute	. .	. .	. .	. .	. .	. .	. .
Sanpete	8	3	2	1	2	. .	3
Sevier	5	1	1	3	. .	. .	1
Wayne	. .	. .	. .	. .	. .	. .	. .
District 5	22	7	4	2	8	1	9
Beaver	4	1	2	1	. .	. .	. .
Garfield	2	1	1	. .	. .	. .	. .
Iron	7	2	. .	1	4	. .	7
Kane	2	. .	1	. .	1	. .	. .
Washington	7	3	. .	. .	3	1	2
District 6	8	3	2	1	1	1	6
Daggett	. .	. .	. .	. .	. .	. .	. .
Duchesne	3	1	2	. .	. .	. .	3
Uintah	5	2	. .	1	1	1	3
District 7	19	4	4	4	6	1	7
Carbon	7	. .	2	. .	4	1	3
Emery	3	1	1	1	. .	. .	1
Grand	3	. .	. .	2	1	. .	1
San Juan	6	3	1	1	1	. .	2

TABLE A-33

LIVE BIRTHS, PREMATURE LIVE BIRTHS, FETAL DEATHS, AND SELECTED CAUSES OF INFANT MORTALITY BY INSTITUTION AND COUNTY OF OCCURRENCE: UTAH, 1978

County and Institution	Live Births		Fetal Deaths	Infant Deaths by Selected Causes							
	Total	Premature		Total	Respiratory System Diseases 460-519	Congenital Anomalies 740-759	Complications Related to Pregnancy and Childbirth 762-772	Anoxic & Hypoxic Conditions Not Elsewhere Classifiable Except Unspecified 776	Asphyxia of Newborn Unspecified 776.9	Immaturity Unqualified 777	All Other Causes
Total	39,758	2,349	302	491	23	145	45	81	31	21	145
Beaver	112	9	. .	2	. .	. .	. .	1	. .	. .	1
Beaver Valley Hospital	82	4	. .	. .	. .	. .	. .	. .	. .	. .	. .
Milford Valley Hospital	30	5	. .	1	. .	. .	. .	1	. .	. .	. .
Not in hospital	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	1
Box Elder	686	44	7	9	. .	2	. .	. .	. .	1	6
Bear River Valley Hospital	127	11	5	1	. .	. .	. .	. .	. .	. .	1
Cooley Memorial Hospital	558	33	2	3	. .	2	. .	. .	. .	1	. .
Not in hospital	1	. .	. .	5	. .	. .	. .	. .	. .	. .	5
Cache	1,980	116	11	13	2	5	5	. .	. .	1	. .
Logan Hospital	1,966	112	11	11	1	4	5	. .	. .	1	. .
Not in hospital	14	4	. .	2	1	1	. .	. .	. .	. .	. .
Carbon	753	47	3	4	. .	2	. .	. .	. .	. .	2
Carbon County Hospital	752	. .	3	3	. .	2	. .	. .	. .	. .	1
Not in hospital	1	. .	. .	1	. .	. .	. .	. .	. .	. .	1
Daggett[1]	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Davis	2,610	137	28	21	. .	5	2	1	4	. .	9
Hill AFB, USAF Hospital	481	19	6	4	. .	1	1	. .	1	. .	1
Lakeview Hospital	1,593	83	15	5	. .	1	1	1	2	. .	. .
North Davis Medical Center	514	30	6	3	. .	1	. .	. .	1	. .	1
Not in hospital	22	5	1	9	. .	2	. .	. .	. .	. .	7
Duchesne	390	12	2	3	1	. .	. .	. .	. .	. .	2
Duchesne County Hospital	384	12	2	1	1	. .	. .	. .	. .	. .	. .
Not in hospital	6	. .	. .	2	. .	. .	. .	. .	. .	. .	2
Emery[1]	7	. .	. .	1	. .	. .	. .	. .	. .	. .	1
Garfield	80	5	. .	1	. .	1	. .	. .	. .	. .	. .
Garfield Memorial Hospital	78	5	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	2	. .	. .	1	. .	1	. .	. .	. .	. .	. .
Grand	251	21	1	4	1	1	. .	. .	1	. .	1
Allen Memorial Hospital	249	21	1	2	. .	1	. .	. .	1	. .	. .
Not in hospital	2	. .	. .	2	1	. .	. .	. .	. .	. .	1
Iron	587	33	1	7	. .	1	1	. .	. .	1	4
Valley View Medical Center	583	33	1	5	. .	1	1	. .	. .	1	2
Not in hospital	4	. .	. .	2	. .	. .	. .	.	. .	. .	2
Juab	94	1	. .	. .	. .	. .	. .	. .	. .	. .	. .
Juab County Hospital	93	1	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Kane	95	6	1	2	1	. .	. .	1	. .	. .	. .
Kane County Hospital	93	6	1	2	1	. .	. .	1	. .	. .	. .
Not in hospital	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Millard	190	10	. .	. .	. .	. .	. .	. .	. .	. .	. .
Fillmore Hospital	67	4	. .	. .	. .	. .	. .	. .	. .	. .	. .
West Millard Hospital	123	6	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Morgan[1]	1	. .	. .	1	. .	. .	. .	. .	. .	. .	1
Piute[1]	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Rich[1]	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .

TABLE A-33--Continued

LIVE BIRTHS, PREMATURE LIVE BIRTHS, FETAL DEATHS, AND SELECTED CAUSES OF INFANT MORTALITY BY INSTITUTION AND COUNTY OF OCCURRENCE: UTAH, 1978

County and Institution	Live Births		Fetal Deaths	Infant Deaths by Selected Causes							
	Total	Premature		Total	Respiratory System Diseases 460-519	Congenital Anomalies 740-759	Complications Related to Pregnancy and Childbirth 762-772	Anoxic & Hypoxic Conditions Not Elsewhere Classifiable Except Unspecified 776	Asphyxia of Newborn Unspecified 776.9	Immaturity Unqualified 777	All Other Causes
Salt Lake	16,282	1,065	135	266	6	99	21	48	15	12	65
Cottonwood Hospital	3,244	162	24	16	1	7	4	1	1	. .	2
Holy Cross Hospital	3,148	134	23	8	1	4	. .	. .	. .	2	1
L.D.S. Hospital	6,195	351	46	34	. .	9	7	4	3	9	2
Primary Child.'s Med. Cent.	. .	. .	. .	79	1	58	. .	1	1	. .	18
St. Mark's Hospital	1,704	78	9	3	. .	1	. .	. .	. .	. .	2
University Hospital	1,291	289	24	97	. .	16	10	42	10	1	18
Valley West Hospital	580	35	7	. .	. .	. .	. .	. .	. .	. .	. .
Veteran's Hospital	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	120	16	2	29	3	4	. .	. .	. .	. .	22
San Juan	347	21	4	4	2	. .	. .	. .	. .	. .	2
Monument Valley Hospital	87	2	3	1	1	. .	. .	. .	. .	. .	. .
San Juan Co. Hospital	250	19	1	1	. .	. .	. .	. .	. .	. .	1
Not in hospital	10	. .	. .	2	1	. .	. .	. .	. .	. .	1
Sanpete	366	15	1	4	. .	1	. .	. .	1	. .	2
Gunnison Valley Hospital	189	5	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sanpete Valley Hospital	175	10	1	2	. .	. .	. .	. .	1	. .	1
Not in hospital	2	. .	. .	2	. .	1	. .	. .	. .	. .	1
Sevier	443	32	2	. .	. .	. .	. .	. .	. .	. .	. .
Sevier Valley Hospital	440	32	2	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	3	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Summit	56	1	1	. .	. .	. .	. .	. .	. .	. .	. .
Summit County Hospital	55	1	1	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Tooele	220	9	2	2	. .	. .	. .	. .	. .	. .	2
Tooele Valley Hospital	215	8	2	1	. .	. .	. .	. .	. .	. .	1
U.S. Army Health Clinic	3	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	2	1	. .	1	. .	. .	. .	. .	. .	. .	1
Uintah	512	34	4	4	. .	1	. .	. .	. .	2	1
Uintah County Hospital	509	34	4	2	. .	. .	. .	. .	. .	2	. .
Not in hospital	3	. .	. .	2	. .	1	. .	. .	. .	. .	1
Utah	7,726	398	53	89	6	14	12	19	5	3	28
American Fork Hospital	705	30	3	3	2	. .	. .	. .	. .	. .	1
Payson City Hospital	1,084	50	3	6	. .	2	. .	1	. .	. .	3
Utah State Hospital	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Utah Valley Hospital	5,855	312	46	69	1	10	12	18	5	3	18
Not in hospital	82	6	1	11	3	2	. .	. .	. .	. .	6
Wasatch	229	18	3	. .	. .	. .	. .	. .	. .	. .	. .
Wasatch County Hospital	228	. .	3	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Washington	969	41	5	8	. .	4	. .	1	1	. .	3
Dixie Medical Center	808	9	3	5	. .	3	. .	1	. .	. .	1
Not in hospital	161	32	2	3	. .	. .	. .	. .	1	. .	2
Wayne[1]	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Weber	4,771	274	38	46	2	10	4	10	4	1	15
McKay Dee Hospital	3,702	198	33	37	2	8	4	10	3	. .	10
St. Benedict	1,052	73	4	8	. .	2	. .	. .	1	1	4
Not in hospital	17	3	1	1	. .	. .	. .	. .	. .	. .	1

[1] No hospital in county.

TABLE A-34

DEATHS BY AGE, SEX, AND RESIDENCE: UTAH, 1978

District and County	Total			Deaths by Age Group and Sex																			
				Under 1		1-4		5-14		15-24		25-34		35-44		45-64		65-74		75+		Not Stated	
	Total	Male	Female	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Total	7,871	4,408	3,463	248	195	57	33	53	35	230	79	170	69	169	82	1,040	598	988	617	1,452	1,754	1	1
District 1	511	261	250	20	12	2	. .	2	4	9	8	3	4	9	6	52	34	60	38	104	144	. .	. .
Box Elder	208	123	85	11	3	1	. .	1	. .	4	3	2	2	7	4	25	14	23	10	49	49	. .	. .
Cache	294	135	159	9	7	1	. .	1	3	4	5	1	2	2	2	25	20	37	27	55	93	. .	. .
Rich	9	3	6	. .	2	. .	. .	. .	1	1	. .	. .	. .	. .	. .	2	. .	. .	1	. .	2	. .	. .
District 2N	1,492	827	665	46	43	5	6	16	4	47	10	24	10	33	14	208	125	184	113	264	340	. .	. .
Davis	502	288	214	20	26	3	4	6	2	23	7	9	5	8	6	81	48	67	23	71	93	. .	. .
Morgan	29	13	16	1	1	. .	. .	. .	. .	. .	. .	2	. .	1	. .	3	3	3	4	3	8	. .	. .
Weber	961	526	435	25	16	2	2	10	2	24	3	13	5	24	8	124	74	114	86	190	239	. .	. .
District 2S	3,523	1,943	1,580	94	71	21	13	16	15	80	40	91	33	81	42	489	283	427	281	643	801	1	1
Salt Lake	3,380	1,858	1,522	91	67	21	11	16	15	77	37	87	31	76	39	460	270	410	269	619	782	1	1
Tooele	143	85	58	3	4	. .	2	. .	. .	3	3	4	2	5	3	29	13	17	12	24	19	. .	. .
District 3	1,063	594	469	51	41	13	8	6	6	42	10	29	10	18	12	114	74	124	78	197	230	. .	. .
Summit	43	27	16	. .	. .	. .	1	1	1	. .	1	2	. .	1	. .	7	1	3	2	13	10	. .	. .
Utah	958	532	426	50	40	13	7	5	5	41	9	24	10	17	10	98	65	115	74	169	206	. .	. .
Wasatch	62	35	27	1	1	. .	. .	. .	. .	1	. .	3	. .	. .	2	9	8	6	2	15	14	. .	. .
District 4	391	241	150	7	9	5	3	5	2	10	1	5	3	8	1	52	17	62	38	87	76	. .	. .
Juab	41	26	15	1	. .	. .	1	1	. .	. .	1	1	. .	. .	. .	6	. .	7	2	10	11	. .	. .
Millard	73	45	28	2	. .	2	. .	. .	1	4	. .	2	. .	2	1	5	5	13	8	16	13	. .	. .
Piute	7	5	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	3	. .	1	1	1	1	. .	. .
Sanpete	155	98	57	3	5	1	1	3	1	5	. .	2	. .	3	. .	26	6	22	13	33	31	. .	. .
Sevier	106	60	46	1	4	1	1	1	. .	1	. .	. .	3	3	. .	9	6	17	13	26	19	. .	. .
Wayne	9	7	2	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	3	. .	2	1	1	1	. .	. .
District 5	368	218	150	14	8	2	. .	3	2	12	2	6	3	5	1	46	24	58	34	72	76	. .	. .
Beaver	38	26	12	2	2	1	. .	. .	. .	2	. .	1	. .	. .	. .	6	2	6	4	8	4	. .	. .
Garfield	33	21	12	2	. .	. .	. .	1	1	1	. .	1	. .	. .	. .	3	3	8	4	5	4	. .	. .
Iron	95	57	38	4	3	. .	. .	2	1	5	. .	1	2	3	1	14	8	12	4	16	19	. .	. .
Kane	32	17	15	1	1	1	. .	. .	. .	1	1	. .	. .	1	. .	4	3	4	2	5	8	. .	. .
Washington	170	97	73	5	2	. .	. .	. .	. .	3	1	3	1	1	. .	19	8	28	20	38	41	. .	. .
District 6	180	118	62	6	2	5	. .	1	. .	11	3	6	2	7	4	38	10	24	11	20	30	. .	. .
Daggett	5	2	3	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	1	. .	. .	. .	. .	3	. .	. .
Duchesne	77	56	21	2	1	3	. .	1	. .	5	. .	2	. .	1	. .	17	5	16	5	9	10	. .	. .
Uintah	98	60	38	4	1	2	. .	. .	. .	6	3	3	2	6	4	20	5	8	6	11	17	. .	. .
District 7	343	206	137	10	9	4	3	4	2	19	5	6	4	8	2	41	31	49	24	65	57	. .	. .
Carbon	179	113	66	5	2	1	1	. .	. .	7	. .	2	1	5	1	19	17	31	14	43	30	. .	. .
Emery	64	39	25	2	1	1	2	2	1	3	. .	. .	1	2	1	12	1	8	4	9	14	. .	. .
Grand	49	27	22	1	2	. .	. .	. .	. .	3	2	2	1	1	. .	7	9	6	2	7	6	. .	. .
San Juan	51	27	24	2	4	2	. .	2	1	6	3	2	1	. .	. .	3	4	4	4	6	7	. .	. .

TABLE A-35

DEATHS BY RACE, SEX, AND RESIDENCE: UTAH, 1978

District and County of Residence	Total	Deaths by Race and Sex														
		White			Black			Indian			Other Nonwhite			Race Not Stated		
		Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total	7,871	7,681	4,288	3,393	56	30	26	86	61	25	40	25	15	8	4	4
District 1	511	506	257	249	. .	. .	. .	5	4	1	. .	. .	. .	. .	. .	. .
Box Elder	208	204	120	84	. .	. .	. .	4	3	1	. .	. .	. .	. .	. .	. .
Cache	294	293	134	159	. .	. .	. .	1	1	. .	. .	. .	. .	. .	. .	. .
Rich	9	9	3	6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 2N	1,492	1,450	804	646	29	14	15	2	1	1	11	8	3	. .	. .	. .
Davis	502	494	283	211	1	. .	1	1	1	. .	6	4	2	. .	. .	. .
Morgan	29	29	13	16	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Weber	961	927	508	419	28	14	14	1	. .	1	5	4	1	. .	. .	. .
District 2S	3,523	3,455	1,903	1,552	26	15	11	11	8	3	26	14	12	5	3	2
Salt Lake	3,380	3,317	1,821	1,496	25	15	10	7	5	2	26	14	12	5	3	2
Tooele	143	138	82	56	1	. .	1	4	3	1	. .	. .	. .	. .	. .	. .
District 3	1,063	1,056	589	467	1	1	. .	4	3	1	1	1	. .	1	. .	1
Summit	43	43	27	16	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Utah	958	951	527	424	1	1	. .	4	3	1	1	1	. .	1	. .	1
Wasatch	62	62	35	27	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 4	391	388	239	149	. .	. .	. .	2	1	1	1	1	. .	. .	. .	. .
Juab	41	41	26	15	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Millard	73	73	45	28	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Piute	7	7	5	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sanpete	155	153	96	57	. .	. .	. .	1	1	. .	1	1	. .	. .	. .	. .
Sevier	106	105	60	45	. .	. .	. .	1	. .	1	. .	. .	. .	. .	. .	. .
Wayne	9	9	7	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 5	368	361	212	149	. .	. .	. .	4	4	. .	1	1	. .	2	1	1
Beaver	38	37	25	12	. .	. .	. .	. .	. .	. .	1	1	. .	. .	. .	. .
Garfield	33	32	20	12	. .	. .	. .	1	1	. .	. .	. .	. .	. .	. .	. .
Iron	95	92	54	38	. .	. .	. .	3	3	. .	. .	. .	. .	. .	. .	. .
Kane	32	30	16	14	. .	. .	. .	. .	. .	. .	. .	. .	. .	2	1	1
Washington	170	170	97	73	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 6	180	152	94	58	. .	. .	. .	28	24	4	. .	. .	. .	. .	. .	. .
Daggett	5	5	2	3	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Duchesne	77	68	47	21	. .	. .	. .	9	9	. .	. .	. .	. .	. .	. .	. .
Uintah	98	79	45	34	. .	. .	. .	19	15	4	. .	. .	. .	. .	. .	. .
District 7	343	313	190	123	. .	. .	. .	30	16	14	. .	. .	. .	. .	. .	. .
Carbon	179	179	113	66	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Emery	64	63	38	25	. .	. .	. .	1	1	. .	. .	. .	. .	. .	. .	. .
Grand	49	49	27	22	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
San Juan	51	22	12	10	. .	. .	. .	29	15	14	. .	. .	. .	. .	. .	. .

TABLE A-36

DEATHS BY PLACE WHERE DEATH OCCURRED IN COUNTY OF OCCURRENCE: UTAH, 1978

County of Occurrence	Total	Hospital	Home	Enroute Hospital	Nursing Home	Clinic Dr.'s Off., Maternal Home	Other Location	Not Stated
Total	8,256	4,853	1,667	3	1,365	13	354	1
District 1	473	210	135	1	102	. .	25	. .
Box Elder	181	69	53	. .	43	. .	16	. .
Cache	287	141	80	1	59	. .	6	. .
Rich	5	. .	2	. .	. .	. .	3	. .
District 2N	1,475	810	328	. .	306	1	30	. .
Davis	431	211	114	. .	96	1	9	. .
Morgan	17	. .	12	. .	. .	. .	5	. .
Weber	1,027	599	202	. .	210	. .	16	. .
District 2S	4,093	2,514	781	. .	679	5	114	. .
Salt Lake	3,980	2,441	763	. .	671	5	100	. .
Tooele	113	73	18	. .	8	. .	14	. .
District 3	1,083	684	191	. .	156	1	51	. .
Summit	37	11	11	. .	. .	. .	15	. .
Utah	974	626	165	. .	150	1	32	. .
Wasatch	72	47	15	. .	6	. .	4	. .
District 4	325	168	82	. .	29	. .	46	. .
Juab	35	18	6	. .	6	. .	5	. .
Millard	70	51	15	. .	. .	. .	4	. .
Piute	5	. .	3	. .	. .	. .	2	. .
Sanpete	120	63	34	. .	4	. .	19	. .
Sevier	92	36	24	. .	19	. .	13	. .
Wayne	3	. .	. .	. .	. .	. .	3	. .
District 5	370	214	74	1	46	4	31	. .
Beaver	37	28	4	. .	. .	. .	5	. .
Garfield	35	28	2	1	. .	. .	4	. .
Iron	95	56	25	. .	3	. .	11	. .
Kane	43	27	4	. .	4	1	7	. .
Washington	160	75	39	. .	39	3	4	. .
District 6	139	76	28	. .	11	. .	24	. .
Daggett	. .	. .	. .	. .	. .	. .	. .	. .
Duchesne	79	38	16	. .	11	. .	14	. .
Uintah	60	38	12	. .	. .	. .	10	. .
District 7	298	177	48	1	36	2	33	1
Carbon	175	126	23	. .	20	. .	6	. .
Emery	31	. .	12	. .	9	2	7	1
Grand	43	30	7	1	. .	. .	5	. .
San Juan	49	21	6	. .	7	. .	15	. .

TABLE A-37

DEATHS BY AGE, SEX, AND RACE: UTAH, 1978

Age	Total Deaths	Deaths by Race and Sex							
		White		Black		Indian		Other Nonwhite	
		Male	Female	Male	Female	Male	Female	Male	Femal
Total	7,871	4,288	3,393	30	26	61	25	29	19
Under 1 year	443	238	186	1	4	6	3	3	2
Under 1 Month	302	153	137	. .	4	3	2	2	1
Under 1 week	261	132	121	. .	2	1	2	2	1
Under 1 day	155	82	70	. .	. .	1	. .	1	1
Under 1 hour	53	32	20	. .	. .	. .	. .	. .	1
1-4	90	53	33	. .	. .	3	. .	1	. .
5-9	41	23	16	. .	. .	1	1	. .	. .
10-14	47	28	18	. .	. .	1	. .	. .	. .
15-19	129	86	33	1	. .	5	2	2	. .
20-24	180	124	40	4	3	6	1	2	. .
25-29	130	88	34	2	. .	1	2	2	1
30-34	110	76	30	. .	1	1	1	1	. .
35-39	119	79	34	2	. .	2	1	1	. .
40-44	132	80	46	. .	. .	5	1	. .	. .
45-49	223	120	93	1	1	4	2	1	1
50-54	307	191	107	1	2	4	1	1	. .
55-59	472	286	168	3	3	7	2	1	2
60-64	637	411	212	2	3	6	. .	2	1
65-69	709	440	262	3	. .	. .	2	2	. .
70-74	896	533	349	5	1	2	1	3	2
75-79	990	502	473	4	3	2	2	3	1
80-84	973	433	530	. .	4	. .	. .	1	5
85-89	743	302	431	1	1	4	1	1	2
90-94	395	160	235	. .	. .	. .	. .	. .	. .
95-99	88	31	53	. .	. .	1	1	2	. .
100 and over	15	3	10	. .	. .	. .	1	. .	1
Not stated	2	1	. .	. .	. .	. .	. .	. .	1

TABLE A-38

DEATHS BY MONTH OF OCCURRENCE AND RESIDENCE OF DECEASED: UTAH, 1978

District and County of Residence	Total	Deaths by Month of Occurrence											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Total	7,871	761	580	663	618	642	667	666	670	601	655	607	741
District 1	511	58	32	47	42	35	50	46	37	38	38	40	48
Box Elder	208	14	14	16	20	15	22	26	19	14	7	16	25
Cache	294	43	18	31	22	20	27	18	17	24	30	23	21
Rich	9	1	. .	. .	. .	. .	1	2	1	. .	1	1	2
District 2N	1,492	134	129	129	102	122	110	151	112	109	133	132	129
Davis	502	57	41	43	30	30	39	42	40	41	51	48	40
Morgan	29	1	3	2	3	2	. .	4	3	1	2	2	6
Weber	961	76	85	84	69	90	71	105	69	67	80	82	83
District 2S	3,523	353	259	293	277	285	282	281	313	275	296	267	342
Salt Lake	3,380	334	248	275	271	275	270	271	301	265	282	256	332
Tooele	143	19	11	18	6	10	12	10	12	10	14	11	10
District 3	1,063	99	79	90	94	80	95	87	103	77	80	78	101
Summit	43	5	4	3	3	3	7	3	3	7	. .	2	3
Utah	958	84	71	77	85	74	86	80	95	67	76	73	90
Wasatch	62	10	4	10	6	3	2	4	5	3	4	3	8
District 4	391	36	22	34	29	36	40	35	29	24	37	24	45
Juab	41	3	1	4	5	3	7	4	4	5	2	2	1
Millard	73	8	5	3	6	4	9	6	4	11	3	5	9
Piute	7	1	1	. .	1	. .	1	. .	1	. .	1	1	. .
Sanpete	155	12	13	14	7	16	18	16	10	5	16	10	18
Sevier	106	10	2	11	8	13	4	9	10	2	15	6	16
Wayne	9	2	. .	2	2	. .	1	. .	. .	1	. .	. .	1
District 5	368	35	22	33	30	33	35	26	32	38	26	30	28
Beaver	38	4	3	3	4	3	5	3	. .	3	3	3	4
Garfield	33	1	1	1	1	4	3	2	4	5	2	4	5
Iron	95	4	8	9	6	5	6	12	9	12	8	11	5
Kane	32	2	. .	3	3	4	3	1	6	5	2	2	1
Washington	170	24	10	17	16	17	18	8	13	13	11	10	13
District 6	180	17	11	19	13	16	15	15	10	12	23	9	20
Daggett	5	1	. .	. .	1	. .	. .	. .	. .	. .	1	. .	2
Duchesne	77	11	5	11	3	7	3	6	7	5	7	4	8
Uintah	98	5	6	8	9	9	12	9	3	7	15	5	10
District 7	343	29	26	18	31	35	40	25	34	28	22	27	28
Carbon	179	16	16	12	16	18	16	14	19	14	11	11	16
Emery	64	8	5	1	3	6	10	5	3	8	5	6	4
Grand	49	2	3	4	5	7	5	5	5	5	2	3	3
San Juan	51	3	2	1	7	4	9	1	7	1	4	7	5

TABLE A-39

DEATHS FROM DISEASES OF THE CIRCULATORY SYSTEM BY AGE AND SEX: UTAH, 1978

Age and Sex	Deaths from Diseases of the Circulatory System by ICDA Code								
	Total 390-458	Active Rheumatic Fever 390-392	Chronic Rheumatic Fever 393-398	Hypertensive Disease 400-404	Ischemic Heart Disease 410-414	Other Forms of Heart Disease 420-429	Cerebro-vascular Disease 430-438	Diseases of Arteries, Arterioles, Capillaries 440-448	Diseases of Veins and Lymphatics, and Other Diseases of Circulatory System 450-458
Total	3,605	. .	114	38	2,196	323	676	200	58
Male	1,912	. .	33	10	1,310	162	256	109	32
Female	1,693	. .	81	28	886	161	420	91	26
Under 45	89	. .	8	. .	32	22	14	5	8
Male	56	. .	2	. .	29	15	3	4	3
Female	33	. .	6	. .	3	7	11	1	5
45-54	189	. .	14	1	121	22	22	5	4
Male	138	. .	4	. .	106	16	8	2	2
Female	51	. .	10	1	15	6	14	3	2
55-64	495	. .	28	2	340	48	47	18	12
Male	360	. .	8	1	271	31	25	15	9
Remale	135	. .	20	1	69	17	22	3	3
65-74	864	. .	36	7	591	54	127	35	14
Male	538	. .	10	4	399	39	53	24	9
Female	326	. .	26	3	192	15	74	11	5
75+	1,968	. .	28	28	1,112	177	466	137	20
Male	820	. .	9	5	505	61	167	64	9
Female	1,148	. .	19	23	607	116	299	73	11

TABLE A-40

DEATHS BY SELECTED CAUSES AND COUNTY OF RESIDENCE: UTAH, 1978

Cause of Death Eighth Revision International Classification of Diseases	Total	Deaths by County of Residence																												
		Beaver	Box Elder	Cache	Carbon	Daggett	Davis	Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane	Millard	Morgan	Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier	Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
All causes	7,871	38	208	294	179	5	502	77	64	33	49	95	41	32	73	29	7	9	3,380	51	155	106	43	143	98	958	62	170	9	961
Enteritis and other diarrheal diseases	9	. .	. .	. .	. .	. .	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	3	. .	. .	. .	. .	. .	. .	3	. .	. .	. .	1
Tuberculosis, all forms (010-019)	10	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	2	. .	1	. .	1	1	. .	1	. .	. .	3
Syphilis (090-097)	6	. .	. .	. .	2	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	1	. .	. .	. .	1	. .	. .	. .	. .	. .	. .
Other infective and parasitic diseases (remainder 000-136)	46	. .	. .	1	1	. .	3	2	. .	. .	1	1	. .	. .	. .	. .	. .	. .	22	. .	1	. .	. .	1	1	6	. .	1	. .	5
Malignant neoplasms, including neoplasms of lymphatic and hematopoetic tissues (140-209)	1,309	5	35	63	33	1	98	7	6	2	11	13	7	3	13	4	2	1	573	3	28	17	4	25	14	148	8	36	2	147
Malignant neoplasms of buccal cavity and pharynx (140-149)	20	. .	2	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	12	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	3
Malignant neoplasms of digestive organs and peritoneum (150-159)	328	2	7	20	7	1	29	2	4	. .	3	2	1	. .	3	. .	. .	1	130	1	7	3	2	8	4	38	3	7	. .	43
Malignant neoplasms respiratory system (160-163)	193	. .	4	7	3	. .	10	1	1	. .	3	1	3	1	4	2	1	. .	91	. .	5	. .	. .	4	4	16	1	7	1	23
Malignant neoplasms of breast (174)	138	. .	6	8	4	. .	9	. .	. .	. .	3	. .	. .	. .	. .	1	. .	. .	59	. .	2	3	. .	2	3	19	. .	6	. .	13
Malignant neoplasms of genital organs (180-187)	183	. .	2	4	4	. .	20	2	. .	1	1	3	2	. .	3	1	1	. .	77	. .	2	3	1	5	. .	23	2	4	. .	22
Malignant neoplasms of urinary organs (188-189)	51	1	. .	1	1	. .	5	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	29	. .	1	2	. .	. .	. .	3	1	2	. .	5
Malignant neoplasms of all other and unspecified sites (170, 173, 190-199)	148	2	4	10	7	. .	9	2	. .	. .	1	1	. .	. .	. .	. .	. .	. .	66	. .	1	4	. .	2	. .	21	1	5	. .	12
Leukemia (204-207)	84	. .	5	6	1	. .	5	. .	. .	. .	. .	2	1	. .	2	. .	. .	. .	29	1	4	. .	. .	1	. .	12	. .	3	. .	12
Other neoplasms of lymphatic and hematopoetic tissues (200-203, 208-209)	113	. .	2	5	5	. .	6	. .	. .	. .	. .	4	. .	1	1	. .	. .	. .	56	1	4	2	1	1	2	10	. .	2	. .	10
Remainder (140-209)	51	. .	3	2	1	. .	4	. .	1	1	. .	. .	. .	. .	. .	. .	. .	. .	24	. .	2	. .	. .	2	. .	6	. .	. .	1	4
Benign neoplasms and neoplasms of unspecified nature (210-239)	27	. .	1	. .	. .	. .	2	1	1	. .	. .	. .	. .	. .	1	. .	. .	. .	11	. .	1	. .	. .	. .	. .	5	1	1	. .	2
Diabetes mellitus (250)	167	. .	7	12	2	. .	16	3	. .	. .	. .	4	1	1	1	. .	. .	. .	72	1	. .	1	1	1	1	24	2	2	. .	14
Anemias (280-285)	10	1	. .	. .	. .	. .	[illegible]	. .	1	. .	. .	1	. .	. .	. .	. .	. .	. .	6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	5
Meningitis (320)	17	. .	. .	. .	. .	. .	[illegible]	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	7	. .	. .	1	. .	. .	. .	3	. .	. .	. .	4
Major cardiovascular diseases (390-448)	[illegible]	10	61	148	89	2	195	[illegible]	[illegible]	[illegible]	15	40	21	13	36	15	3	4	1,[illegible]	14	74	57	20	51	48	608	32	91	5	470
Active rheumatic fever and chronic rheumatic heart disease (390-398)	114	1	3	6	5	. .	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	93	. .	4	2	1	2	. .	12	2	1	. .	15
Hypertension, malignant, benign, renal disease (400, 401, 403)	11	. .	1	. .	. .	. .	. .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	4
Hypertensive heart disease with or without renal disease (402, 404)	23	. .	1	6	. .	. .	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9	. .	. .	1	. .	. .	. .	4	. .	. .	. .	. .
Ischemic heart disease (410-414)	2,15[illegible]	10	48	88	61	2	126	21	24	8	8	20	12	11	21	10	3	2	965	6	35	27	9	34	22	249	14	53	3	310
Chronic disease of endocardium and other myocardial insufficiency (424, 428)	16	. .	. .	1	2	. .	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	7	. .	1	. .	. .	1	. .	2	. .	. .	. .	1
Ill-defined heart disease (429)	301	3	7	2	5	. .	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	133	2	8	8	4	5	10	41	7	7	1	28
Cerebrovascular disease (430-438)	674	7	30	23	11	. .	39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	2	289	4	23	16	4	7	4	80	8	25	1	81
Arteriosclerosis (440)	105	. .	7	2	1	. .	5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	47	1	. .	3	1	1	. .	15	1	4	. .	13
Other diseases of arteries, arterioles and capillaries (441-448)	91	1	4	3	1	. .	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	38	1	2	1	1	1	2	13	. .	1	. .	10

	Total	Beaver	Box Elder	Cache	Carbon	Daggett	Davis	Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane	Millard	Morgan	Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier	Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
Acute bronchitis and bronchiolitis (466)	6	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	2	. .	. .	. .	. .	. .	. .	2	1	. .	. .	1
Influenza and pneumonia (470-477, 480-486)	261	. .	11	7	4	. .	13	5	2	1	4	2	. .	3	1	. .	. .	. .	104	1	5	5	4	7	1	30	3	1	. .	47
Influenza (470-474)	18	. .	1	1	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	8	. .	. .	. .	1	1	. .	3	. .	. .	. .	1
Pneumonia (480-486)	243	. .	10	6	4	. .	12	5	2	1	4	2	. .	3	. .	. .	. .	. .	96	1	5	5	3	6	1	27	3	1	. .	46
Bronchitis, emphysema, and asthma (490-493)	102	2	2	4	6	. .	1	2	1	. .	1	3	. .	. .	. .	. .	. .	. .	49	. .	2	1	1	5	1	10	2	1	1	7
Chronic and unqualified bronchitis (490, 491)	27	1	. .	. .	1	. .	. .	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	11	. .	1	. .	. .	3	. .	2	. .	1	. .	5
Emphysema (492)	68	1	2	4	5	. .	1	. .	1	. .	1	3	. .	. .	. .	. .	. .	. .	35	. .	. .	1	1	1	1	7	2	. .	1	1
Asthma (493)	7	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	3	. .	1	. .	. .	1	. .	1	. .	. .	. .	1
Peptic ulcer (531-533)	20	1	. .	. .	. .	. .	2	. .	. .	1	1	. .	. .	. .	. .	. .	. .	. .	5	. .	1	1	. .	. .	. .	4	. .	. .	. .	4
Hernia and intestinal obstruction (550-553, 560)	29	. .	. .	1	. .	. .	. .	1	. .	. .	. .	. .	1	. .	. .	2	. .	. .	11	. .	1	1	. .	. .	. .	6	1	. .	. .	4
Cirrhosis of liver (571)	112	. .	1	3	2	. .	5	2	1	1	. .	2	. .	. .	. .	. .	. .	. .	52	. .	1	. .	. .	7	4	10	. .	. .	. .	21
Cholelithiasis, cholecyctitis and cholangitis (574-575)	19	1	. .	1	1	. .	2	2	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	7	. .	1	1	. .	1	. .	1	. .	. .	. .	. .
Nephritis and nephrosis (580-584)	22	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	12	. .	. .	1	. .	. .	. .	4	. .	1	. .	3
Infections of kidney (590)	12	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	1	. .	. .	. .	5	. .	. .	. .	. .	. .	. .	2	. .	. .	. .	3
Hyperplasia of prostate (600)	3	. .	. .	. .	1	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Complications of pregnancy, childbirth, and the puerperium (630-678)	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	1	. .	. .	. .	. .
Congenital anomalies (740-759)	162	1	3	8	7	. .	10	. .	1	1	1	2	. .	. .	1	. .	. .	. .	69	1	2	2	1	. .	1	28	. .	3	. .	20
Certain causes of mortality in early infancy (760-769.4-772, 774-778)	183	2	5	7	1	. .	25	. .	1	. .	1	3	1	1	1	1	. .	2	59	2	3	3	. .	4	4	39	1	2	. .	15
Symptoms and illdefined conditions (780-796)	170	. .	6	6	. .	. .	10	1	3	. .	2	1	1	1	1	. .	. .	. .	72	5	5	1	. .	3	3	30	2	3	. .	14
Accidents (E800-E949)	694	2	18	19	14	2	56	9	14	4	8	10	4	6	9	3	. .	2	272	14	18	7	3	15	18	85	4	13	1	64
Motor vehicle accidents (E810-E823)	384	. .	11	12	8	1	26	3	6	3	6	6	1	5	7	1	. .	2	150	11	10	4	2	10	9	53	2	6	. .	29
All other accidents (E800-E807, E825-E949)	310	2	7	7	6	1	30	6	8	1	2	4	3	1	2	2	. .	. .	122	3	8	3	1	5	9	32	2	7	1	35
Suicide (E950-E959)	167	. .	5	6	3	. .	14	1	. .	. .	1	2	1	. .	1	1	1	. .	81	. .	1	3	. .	6	3	14	. .	3	. .	20
Homicide (E960-E978)	65	1	2	2	. .	. .	4	3	. .	1	1	. .	1	2	1	. .	. .	. .	36	1	. .	. .	. .	2	1	3	. .	. .	. .	4
Injury undetermined whether accidentally or purposely inflicted (E980-E989)	27	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	1	. .	. .	19	. .	. .	. .	1	. .	1	4	. .	. .	. .	. .
All other causes	660	2	21	20	13	. .	39	6	1	1	. .	3	3	1	7	2	. .	. .	303	6	11	7	8	13	6	88	4	12	. .	83

TABLE A-41

RESIDENT DEATHS BY SELECTED CAUSE AND AGE: UTAH, 1978

ICDA Code 8th Rev.	Cause of Death	All Ages		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75 & Over
		Number	Rate										
	All causes[1]	7,871	597.6	443	90	88	309	[illegible]	251	539	1,109	1,605	[illegible]
008-009	Enteritis and other diarrheal diseases	9	.7	2	. . .	[illegible]	. . .	1	1	[illegible]	[illegible]	[illegible]	[illegible]
010-019	Tuberculosis, all forms	10	.8	. . .	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
090-097	Syphilis	6	.5	. . .	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
000-136	Other infective and parasitic diseases	46	3.5	8	. . .	[illegible]	1	2	[illegible]	1	[illegible]	[illegible]	[illegible]
140-209	Malignant neoplasms	1,309	99.4	2	5	6	14	42	[illegible]	[illegible]	268	[illegible]	[illegible]
140-149	*Malignant neoplasm of buccal cavity and pharynx*	[illegible]	*1.6*	. . .	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150-159	*Malignant neoplasms of digestive organs and peritoneum*	[illegible]	[illegible]	*1*	*1*	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160-163	*Malignant neoplasms of respiratory system*	[illegible]	*14.7*	*1*	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
174	*Malignant neoplasms of breast*	[illegible]	[illegible]	. . .	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180-187	*Malignant neoplasms of genital organs*	[illegible]	[illegible]	. . .	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
188, 189	*Malignant neoplasms of urinary organs*	[illegible]	[illegible]	. . .	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
190-199	*Malignant neoplasms of all other unspecified sites*	[illegible]	[illegible]	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
204-207	*Leukemia*	[illegible]	[illegible]	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
208, 209	*Other neoplasms of lymphatic and hematopoietic tissues*	[illegible]	[illegible]	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Balance of malignant neoplasms	[illegible]	[illegible]	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
210-239	Benign neoplasms and neoplasms of unspecified nature	27	2.1	. . .	. . .	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
250	Diabetes mellitis	167	12.7	. . .	[illegible]	[illegible]	[illegible]	8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
280-285	Anemias	16	1.2	[illegible]	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
320	Meningitis	17	1.3	10	2	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
390-448	Major cardiovascular diseases	3,547	269.3	5	1	2	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
390-398	*Active rheumatic fever and chronic rheumatic heart disease*	[illegible]	[illegible]	. . .	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400, 401	*Malignant hypertension and essential benign hypertension*	[illegible]	[illegible]	. . .	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
402-404	*Hypertensive heart disease with or without renal disease*	[illegible]	[illegible]	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
410-414	*Ischemic heart disease*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
424, 428	*Chronic disease of endocardium and other myocardial insufficiency*	[illegible]	[illegible]	. . .	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
429	*Illdefined heart disease*	[illegible]	[illegible]	[illegible]	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
430-438	*Cerebrovascular disease*	*676*	[illegible]	[illegible]	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
440	*Arteriosclerosis*	[illegible]	[illegible]	. . .	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
441-448	*Other diseases of arteries, arterioles and capillaries*	[illegible]	[illegible]	[illegible]	[illegible]	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
466	Acute bronchitis and bronchiolitis	6	.5	3	1	. . .	. . .	1	. . .	. . .	1	. . .	. . .
470-486	Influenza and pneumonia	261	19.8	15	1	1	4	2	4	17	17	40	160
470-474	*Influenza*	*18*	*1.4*	. . .	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
480-486	*Pneumonia*	*243*	*18.4*	*15*	*1*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
490-493	Bronchitis, emphysema, and asthma	102	7.7	. . .	. . .	. . .	1	. . .	1	4	21	40	35
490-491	*Chronic and unqualified bronchitis*	*27*	*2.1*	. . .	. . .	. . .	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
492	*Emphysema*	*68*	*5.2*	. . .	. . .	. . .	. . .	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
493	*Asthma*	*7*	*0.5*	. . .	. . .	. . .	*1*	. . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
531-533	Peptic ulcer	20	1.5	. . .	. . .	. . .	. . .	. . .	1	3	1	5	10
550-560	Hernia and intestinal obstruction	29	2.2	5	. . .	. . .	. . .	. . .	. . .	. . .	5	6	13
571	Cirrhosis of liver	112	8.5	. . .	. . .	. . .	. . .	2	8	28	48	18	8
574, 575	Cholelithiasis, cholecystitis and cholangitis	19	1.4	. . .	. . .	. . .	. . .	. . .	. . .	4	2	6	7
580-584	Nephritis and nephrosis	22	1.7	. . .	. . .	. . .	. . .	1	. . .	2	4	8	7
590	Infections of kidney	12	0.9	. . .	. . .	. . .	1	. . .	. . .	. . .	. . .	. . .	11
600	Hyperplasia of prostate	3	0.2	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	3
630-678	Complications of pregnancy	2	0.2	. . .	. . .	. . .	1	1	. . .	. . .	. . .	. . .	. . .
740-759	Congenital anomalies	162	12.3	123	15	6	6	. . .	1	1	7	3	. . .
760-778	Certain causes of mortality in early infancy	183	13.9	183	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
780-796	Symptoms and illdefined conditions[2]	171	13.0	56	2	. . .	2	6	4	5	11	11	73
E800-E949	Accidents[2]	694	52.7	13	46	50	194	96	54	56	49	35	100
E810-E823	*Motor vehicle accidents*	*384*	*29.2*	*5*	*20*	*28*	*143*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
E825-E949	*All other accidents*[2]	*310*	*23.5*	*8*	*26*	*22*	*51*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
E950-E959	Suicides	167	12.7	. . .	. . .	2	39	30	27	20	25	17	7
E960-E978	Homicides	65	4.9	. . .	5	7	16	14	5	7	4	4	3
E980-E989	Injury undetermined whether accidentally or purposely inflicted	27	2.1	. . .	1	. . .	3	10	6	3	2	2	. . .
	All other causes	66[illegible]	50.1	17	11	11	15	13	28	47	110	154	254

[1] Includes 2 "age not stated."

[2] Includes 1 "age not stated."

TABLE A-42

DEATHS BY RESIDENCE AND MAJOR DEATH CLASSIFICATION: UTAH, 1978

District and County of Residence	Total	Deaths by Major Classification			
		Chronic and Old Age	Preventable	Violent	Residual
Total	7,871	5,621	864	1,050	336
District 1	511	381	54	58	18
Box Elder	208	148	21	26	13
Cache	294	228	31	30	5
Rich	9	5	2	2	. .
District 2N	1,492	1,078	166	188	60
Davis	502	335	69	77	21
Morgan	29	22	1	5	1
Weber	961	721	96	106	38
District 2S	3,523	2,528	344	486	165
Salt Lake	3,380	2,442	324	457	157
Tooele	143	86	20	29	8
District 3	1,063	724	162	123	54
Summit	43	31	5	4	3
Utah	958	645	151	115	47
Wasatch	62	48	6	4	4
District 4	391	294	38	49	10
Juab	41	33	2	6	. .
Millard	73	50	8	11	4
Piute	7	6	. .	1	. .
Sanpete	155	115	15	20	5
Sevier	106	82	13	10	1
Wayne	9	8	. .	1	. .
District 5	368	278	33	45	12
Beaver	38	29	4	3	2
Garfield	33	24	2	5	2
Iron	95	73	9	13	. .
Kane	32	19	3	8	2
Washington	170	133	15	16	6
District 6	180	108	23	44	5
Daggett	5	3	. .	2	. .
Duchesne	77	51	8	16	2
Uintah	98	54	15	26	3
District 7	343	230	44	57	12
Carbon	179	140	15	17	7
Emery	64	43	6	14	1
Grand	49	30	8	11	. .
San Juan	51	17	15	15	4

TABLE A-43

DEATHS BY AGE, SEX, AND MAJOR DEATH CLASSIFICATION: UTAH, 1978

Class of Death	Total	Deaths by Age								
		Under 15	15-24	25-34	35-44	45-54	55-64	65-74	75+	Unknown
Total	7,871	621	309	240	251	530	1,109	1,605	3,204	2
Male	4,408	358	230	171	169	323	718	988	1,450	1
Female	3,463	263	79	69	82	207	391	617	1,754	1
Chronic and old age	5,621	31	25	58	104	266	851	1,445	2,841	. .
Male	2,964	18	16	35	57	132	542	889	1,275	. .
Female	2,657	13	9	23	47	134	309	556	1,566	. .
Preventable	864	437	16	22	36	131	88	25	108	1
Male	533	249	8	12	28	102	61	18	55	. .
Female	331	188	8	10	8	29	27	7	53	1
Violent	1,050	125	254	151	101	113	118	76	111	1
Male	739	77	198	118	78	78	90	47	52	1
Female	311	48	56	33	23	35	28	29	59	. .
All other	336	28	14	9	10	20	52	59	144	. .
Male	172	14	8	6	6	11	25	34	68	. .
Female	164	14	6	3	4	9	27	25	76	. .

TABLE A-44

VIOLENT DEATHS TO RESIDENTS BY AGE, SEX, AND CAUSE: UTAH, 1978

Age and Sex	Violent Deaths by Cause					
	Total	Accident E800-E949	Alcoholism 291, 303 571.0	Suicide E950-E959	Homicide E960-E979	Undetermined If Injury Was Inflicted Accidentally or Purposely E980-E989
Total	1,050	694	97	167	65	27
Under 15	126	110	1	2	12	1
Male	78	67	1	2	7	1
Female	48	43	. .	. .	5	. .
15-19	110	88	2	12	8	. .
Male	84	70	2	9	3	. .
Female	26	18	. .	3	5	. .
20-24	144	106	. .	27	8	3
Male	114	81	. .	26	5	2
Female	30	25	. .	1	3	1
25-34	151	96	1	30	14	10
Male	118	72	. .	25	12	9
Female	33	24	1	5	2	1
35-44	101	54	9	27	5	6
Male	78	42	8	19	4	5
Female	23	12	1	8	1	1
45-54	113	56	27	20	7	3
Male	78	40	13	16	7	2
Female	35	16	14	4	. .	1
55-64	118	49	38	25	4	2
Male	90	37	30	19	4	. .
Female	28	12	8	6	. .	2
65-74	76	35	18	17	4	2
Male	47	16	14	12	4	1
Female	29	19	4	5	. .	1
75-84	67	59	1	5	2	. .
Male	36	28	1	5	2	. .
Female	31	31	. .	. .	. .	. .
85 and over	44	41	. .	2	1	. .
Male	16	15	. .	1	. .	. .
Female	28	26	. .	1	1	. .

TABLE A-45

VIOLENT DEATHS BY RESIDENCE AND CAUSE: UTAH, 1978

District and County of Residence	Total	Accident E800-E949	Alcoholism 291, 303 571.0	Homicide E960-E979	Suicide E950-E959	Undetermined If Injury Was Inflicted Accidentally Or Purposely E980-E989
Total	1,050	694	97	65	167	27
District 1	58	39	4	4	11	. .
Box Elder	26	18	1	2	5	. .
Cache	30	19	3	2	6	. .
Rich	2	2	. .	. .	. .	. .
District 2N	188	123	21	8	35	1
Davis	77	56	3	4	14	. .
Morgan	5	3	. .	. .	1	1
Weber	106	64	18	4	20	. .
District 2S	486	287	55	38	87	19
Salt Lake	457	272	49	36	81	19
Tooele	29	15	6	2	6	. .
District 3	123	92	9	3	14	5
Summit	4	3	. .	. .	. .	1
Utah	115	85	9	3	14	4
Wasatch	4	4	. .	. .	. .	. .
District 4	49	39	1	2	7	. .
Juab	6	4	. .	1	1	. .
Millard	11	9	. .	1	1	. .
Piute	1	. .	. .	. .	1	. .
Sanpete	20	18	1	. .	1	. .
Sevier	10	7	. .	. .	3	. .
Wayne	1	1	. .	. .	. .	. .
District 5	45	35	1	4	5	. .
Beaver	3	2	. .	1	. .	. .
Garfield	5	4	. .	1	. .	. .
Iron	13	10	1	. .	2	. .
Kane	8	6	. .	2	. .	. .
Washington	16	13	. .	. .	3	. .
District 6	44	29	6	4	4	1
Daggett	2	2	. .	. .	. .	. .
Duchesne	16	9	3	3	1	. .
Uintah	26	18	3	1	3	1
District 7	57	50	. .	2	4	1
Carbon	17	14	. .	. .	3	. .
Emery	14	14	. .	. .	. .	. .
Grand	11	8	. .	1	1	1
San Juan	15	14	. .	1	. .	. .

TABLE A-46

VIOLENT DEATHS BY RACE, SEX, AND CAUSE: UTAH, 1978

Race and Sex	Total	Accident E800-E949	Alcoholism 291, 303 571.0	Suicide E950-E959	Homicide E960-E979	Undetermined If Injury Was Inflicted Accidentally or Purposely E980-E989
Total	1,050	694	97	167	65	27
Male	739	468	69	134	48	20
Female	311	226	28	33	17	7
White	996	663	87	164	56	26
Male	698	442	62	132	42	20
Female	298	221	25	32	14	6
Black	11	4	2	. .	4	1
Male	7	3	1	. .	3	. .
Female	4	1	1	. .	1	1
Indian	32	21	8	1	2	. .
Male	26	17	6	1	2	. .
Female	6	4	2	. .	. .	. .
Other nonwhite	8	5	. .	2	1	. .
Male	6	5	. .	1	. .	. .
Female	2	. .	. .	1	1	. .
Not stated	3	1	. .	. .	2	. .
Male	2	1	. .	. .	1	. .
Female	1	. .	. .	. .	1	. .

TABLE A-47

VIOLENT DEATHS DUE TO POISONING BY AGE, SEX, AND CAUSE: UTAH, 1978

Cause of Death and Sex of Deceased	Total	Deaths by Age				
		Under 15	15-24	25-44	45-64	65+
Total violent deaths due to poisoning (E850-E982)	85	5	19	33	20	8
Male	56	4	14	26	8	4
Female	29	1	5	7	12	4
Accident (E850-E877)	29	4	10	8	5	2
Male	22	3	8	8	1	2
Female	7	1	2	. .	4	. .
Drugs and medicants (E850-E859)	7	. .	3	2	2	. .
Male	5	. .	3	2	. .	. .
Female	2	. .	. .	. .	2	. .
Other solid or liquid substances (E860-E869)	8	. .	1	3	2	2
Male	7	. .	1	3	1	2
Female	1	. .	. .	. .	1	. .
Gases and vapors (E870-E877)	14	4	6	3	1	. .
Male	10	3	4	3	. .	. .
Female	4	1	2	. .	1	. .
Suicide and self-inflicted poisoning (E950-E952)	43	1	6	18	12	6
Male	25	1	4	12	6	2
Female	18	. .	2	6	6	4
Solid or liquid substances (E950)	25	1	3	11	5	5
Male	13	1	1	7	3	1
Female	12	. .	2	4	2	4
Other gases (E952)	18	. .	3	7	7	1
Male	12	. .	3	5	3	1
Female	6	. .	. .	2	4	. .
Undetermined whether accidentally or purposely inflicted (E980-E982)	13	. .	3	7	3	. .
Male	9	. .	2	6	1	. .
Female	4	. .	1	1	2	. .
Solid or liquid substances (E980)	10	. .	2	5	3	. .
Male	7	. .	1	5	1	. .
Female	3	. .	1	. .	2	. .
Other gases (E982)	3	. .	1	2	. .	. .
Male	2	. .	1	1	. .	. .
Female	1	. .	. .	1	. .	. .

TABLE A-48

VIOLENT DEATHS DUE TO FIREARMS AND EXPLOSIVE MATERIAL BY AGE, SEX, AND TYPE OF DEATH: UTAH, 1978

Cause of Death and Sex of Deceased	Total	Deaths by Age				
		Under 15	15-24	25-44	45-64	65+
Total violent deaths due to firearm missiles and explosive materials	164	4	47	56	37	20
Male	148	4	41	49	35	19
Female	16	. .	6	7	2	1
Accident (E922-E923)	12	2	7	1	2	. .
Male	11	2	7	. .	2	. .
Female	1	. .	. .	1	. .	. .
Suicide and self-inflicted injury (E955)	109	1	29	35	29	15
Male	101	1	28	30	27	15
Female	8	. .	1	5	2	. .
Assault (E965)	36	1	11	14	6	4
Male	29	1	6	13	6	3
Female	7	. .	5	1	. .	1
Undetermined whether accidentally or purposely inflicted (E985)	7	. .	. .	6	. .	1
Male	7	. .	. .	6	. .	1
Female	. .	. .	. .	. .	. .	. .

TABLE A-49

SUICIDE BY AGE, SEX, AND METHOD: UTAH, 1978

Age and Sex	Total (E950-E959)	Solid or Liquid Substances (E950)	Gases Other Than Domestics (E952)	Hanging or Suffocation (E953)	Drowning (E954)	Firearms and Explosives (E955)	Cutting and Piercing Instruments 9E956)	Jumping from a High Place E957	Other and Unspecified Means
Total	167	25	18	8	. .	109	2	3	2
Male	134	13	12	3	. .	101	2	2	1
Female	33	12	6	5	. .	8	. .	1	1
Under 15	2	1	. .	. .	. .	1	. .	. .	. .
Male	2	1	. .	. .	. .	1	. .	. .	. .
Female	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-24	39	3	3	2	. .	29	1	1	. .
Male	35	1	3	1	. .	28	1	1	. .
Female	4	2	. .	1	. .	1	. .	. .	. .
25-34	30	8	. .	. .	. .	20	. .	. .	2
Male	25	6	. .	. .	. .	18	. .	. .	1
Female	5	2	. .	. .	. .	2	. .	. .	1
35-44	27	3	7	1	. .	15	. .	1	. .
Male	19	1	5	1	. .	12	. .	. .	. .
Female	8	2	2	. .	. .	3	. .	1	. .
45-54	20	3	2	1	. .	13	1	. .	. .
Male	16	2	. .	1	. .	12	1	. .	. .
Female	4	1	2	. .	. .	1	. .	. .	. .
55-64	25	2	5	2	. .	16	. .	. .	. .
Male	19	1	3	. .	. .	15	. .	. .	. .
Female	6	1	2	2	. .	1	. .	. .	. .
65-74	17	4	1	2	. .	9	. .	1	. .
Male	12	1	1	. .	. .	9	. .	1	. .
Female	5	3	. .	2	. .	. .	. .	. .	. .
75+	7	1	. .	. .	. .	6	. .	. .	. .
Male	6	. .	. .	. .	. .	6	. .	. .	. .
Female	1	1	. .	. .	. .	. .	. .	. .	. .

TABLE A-50

ACCIDENTAL DEATH OCCURRENCES BY AGE, SEX, AND TYPE OF ACCIDENT: UTAH, 1978

Type of Accident	Total	Accidental Deaths by Age and Sex													
		Under 15		15-24		25-34		35-44		45-54		55-64		65+	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	733	71	45	158	48	85	26	43	8	41	12	42	13	61	80
Railway (E800-E807)	2	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .
Motor vehicle (E810-E823)	405	30	29	112	37	52	23	23	6	24	8	16	7	16	22
Water transport (E830-E838)	10	2	2	. .	. .	2	. .	1	. .	1	. .	2	. .	. .	. .
Air and space transport (E840-E845)	22	. .	. .	4	4	4	1	3	. .	4	. .	2	. .	. .	. .
Poisoning (E850-E877)	26	3	1	7	2	3	. .	4	. .	. .	3	1	. .	2	. .
Falls (E880-E887)	111	1	1	6	1	7	. .	3	. .	6	1	6	2	33	44
Fire and flames (E890-E899)	22	8	4	2	1	1	1	. .	1	. .	. .	1	1	1	1
Nature and environment (E900-E909)	18	2	. .	1	1	3	1	. .	. .	1	. .	3	1	4	1
Drowning and submersion (E910)	29	11	2	6	. .	5	. .	2	. .	. .	. .	1	. .	1	1
Inhalation and ingestion of food causing obstruction or suffocation (E911)	6	1	. .	. .	1	. .	. .	1	. .	. .	. .	2	. .	. .	1
Inhalation and ingestion of other object causing obstruction or suffocation (E912)	1	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Mechanical suffocation (E913)	8	3	4	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .
Hit by object (E916-E918)	26	4	1	6	1	3	. .	5	. .	2	. .	2	. .	2	. .
Firearm missiles (E922)	11	1	. .	8	. .	1	. .	. .	1	. .	. .	. .	. .	. .	. .
Explosive materials (E923)	6	1	. .	1	. .	1	. .	. .	. .	. .	. .	2	. .	. .	1
Electric current (E925)	10	3	. .	3	. .	2	. .	. .	. .	2	. .	. .	. .	. .	. .
Machinery (E928)	3	. .	. .	1	. .	. .	. .	1	. .	. .	. .	1	. .	. .	. .
Surgical and medical (E930-E936)	11	. .	. .	1	. .	1	. .	. .	. .	. .	. .	. .	1	1	7
Late effects of accidental injury (E940-E949)	6	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	2	1	. .	2
Other	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .

TABLE A-51

ACCIDENTAL DEATHS BY MONTH OF DEATH AND TYPE OF ACCIDENT: UTAH, 1978

Type of Accident	Total	Accidental Deaths by Month of Death											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Total	733	60	36	47	50	55	77	108	78	65	59	55	43
Railway (E800-E807)	2	. .	. .	1	. .	. .	. .	. .	. .	1	. .	. .	. .
Motor vehicle (E810-E823	405	18	19	23	31	27	42	66	46	47	33	34	19
Water transport (E830-E838)	10	. .	. .	. .	2	2	1	3	2	. .	. .	. .	. .
Air and space transport (E840-E845)	22	5	1	1	2	. .	. .	1	9	. .	1	. .	2
Poisoning (E850-E877)	26	9	1	4	2	2	1	1	1	1	1	. .	3
Falls (E880-E887)	111	14	10	10	4	6	10	13	9	5	12	7	11
Fire and flames (E890-E899)	22	8	. .	. .	1	2	4	2	. .	1	. .	3	1
Nature and environment (E900-E909)	18	. .	. .	. .	1	1	3	4	2	2	. .	4	1
Drowning and submersion (E910)	29	. .	1	1	1	6	4	5	4	3	3	. .	1
Inhalation and ingestion of food causing obstruction or suffocation (E911)	6	1	. .	2	1	1	. .	1	. .	. .	. .	. .	. .
Inhalation and ingestion of other object causing obstruction or suffocation (E912)	1	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .
Mechanical suffocation (E913)	8	. .	. .	. .	2	1	1	. .	. .	. .	1	1	2
Hit by object (916-E918)	26	1	2	1	2	4	3	2	3	2	2	2	2
Firearm missiles (E922)	11	2	. .	1	1	1	. .	1	. .	1	4	. .	. .
Explosive materials (E923)	6	. .	. .	1	. .	. .	1	2	. .	. .	1	1	. .
Electric current (E925)	10	. .	. .	. .	. .	1	4	3	2	. .	. .	. .	. .
Machinery (E928)	3	. .	1	. .	. .	. .	. .	1	. .	. .	. .	1	. .
Surgical and medical (E930-E936)	11	1	1	2	. .	. .	1	3	. .	1	. .	2	. .
Late effects of accidental injury (E940-E949)	6	1	. .	. .	. .	1	2	. .	. .	. .	1	. .	1

TECHNICAL APPENDIX

TECHNICAL APPENDIX

Vital Statistics Registration in Utah

Centralized vital statistics registration for the State of Utah was first established by act of the Utah Legislature in 1905. The latest revision of the law is found in the 1953 Session Laws, Sections 26-15-9 to 26-15-10 as follows:

> The State Division of Health shall have and exercise the following powers and duties in addition to all other powers and duties imposed on it by law:
>
> a. Provide suitable offices properly equipped for the preservation of all records made or received under the provision of this act;
> b. Install a state-wide system of vital statistics;
> c. Prescribe forms for the collection, compilation, publication, and preservation of vital statistics;
> d. Enforce this act and its regulations made pursuant thereto;
> e. Appoint a Director of Vital Statistics;
> f. Divide the State from time to time into registration districts which will conform to political subdivisions or a combination thereof, or parts thereof;
> g. Appoint local registration officers for such registration districts as are established by the division. Such local registration officers, under the direction and supervision of the division, shall perform all duties required of them by this act and the regulations of the board.

Under Utah statutes, full-time health officers of local health departments become ex officio local registrars and are responsible for the registration of certificates for all births and deaths that occur within their respective jurisdictions. Four of the 29 counties (Salt Lake, Utah, Weber, and Davis), one city (Logan), and three multicounty districts--Southeast (Carbon, Emery, Grand, and San Juan Counties), Bear River (Box Elder, Cache, and Rich Counties), and Southwest (Garfield, Iron, Kane, and Washington Counties) maintain full-time local registrars. The local registrars within the remaining 14 counties are appointed by the State and usually perform their duties on a part-time basis, and in many cases simultaneously assume other positions within their community. The map of the State of Utah (Figure C-1) indicates the location of the local registrars within each of the 29 counties. Presently, there are 25 local registrars and 12 deputy local registrars in the State.

Source of Data

Vital statistics certificates filed with the state Bureau of Health Statistics are the primary source of data presented within this report. These records include certificates of live birth, death, and fetal death. Source data for population estimates are provided by the United States Bureau of the Census.

Certificate Revision

The Utah certificates of live birth, death, and fetal death have been revised periodically; the most recent revision occurring in 1978 for certificates of birth, death, and fetal death. These certificates were adopted by the State Board of Health and distributed to the local registrars for use commencing January 1, 1978 (Figures C-2, C-3, and C-4). The new certificates include all of the items on the recommended national "Standard Certificates," with some modifications and additions to meet particular needs in Utah.

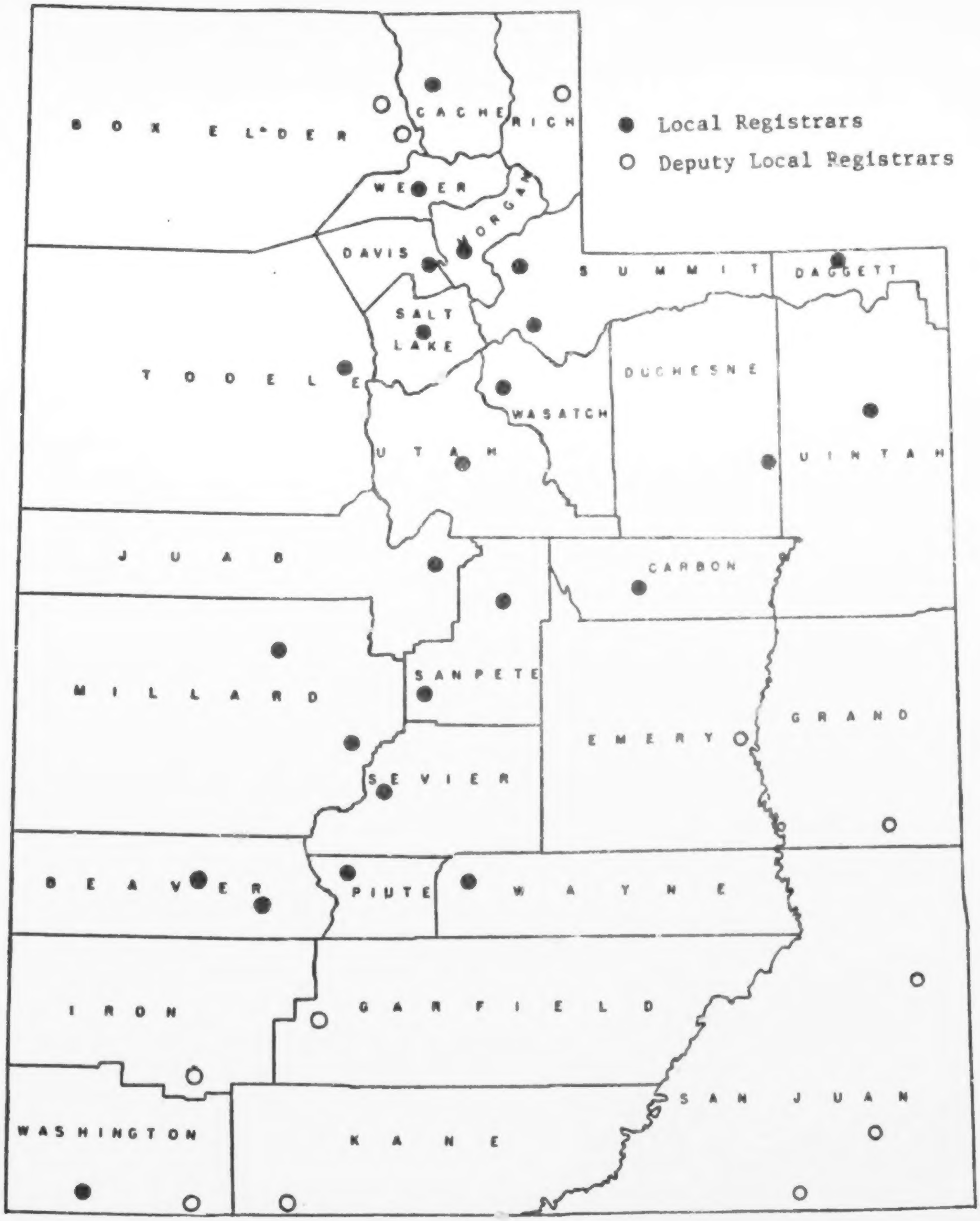
Quality and Limitations of Data

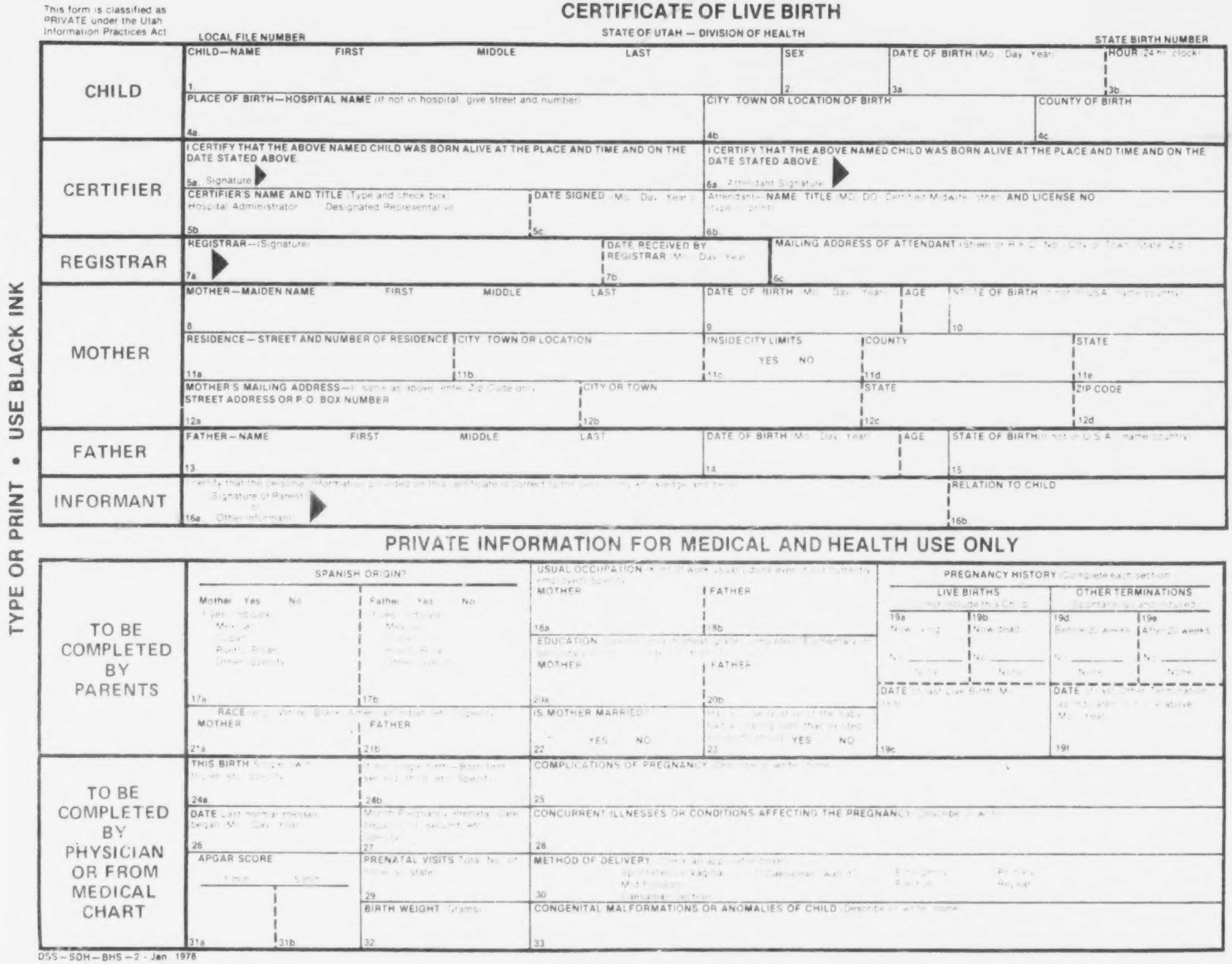
Limitations of the data must be recognized before valid interpretation is possible. For vital statistics data, these limitations are related to the difficulties in reporting and classifying information, and to some under-registration of events. It is necessary to exercise particular caution when evaluating vital statistics trend data, since medical concepts, code definitions, and method of assigning causes of death have changed over the years.

The completeness of registration for births was last tested at the state level in conjunction with the 1950 U.S. Census of the population and was found to be 98.7 percent complete at that time. At the present time, more than 99 percent of all Utah births occur in hospitals. This

FIGURE C-1

LOCATION OF LOCAL REGISTRARS OF VITAL STATISTICS
UTAH, 1978


● Local Registrars
○ Deputy Local Registrars
BOX ELDER
CACHE
RICH
WEBER
MORGAN
DAVIS
SUMMIT
DAGGETT
SALT LAKE
TOOELE
DUCHESNE
WASATCH
UTAH
UINTAH
JUAB
CARBON
SANPETE
MILLARD
EMERY
GRAND
SEVIER
BEAVER
PIUTE
WAYNE
IRON
GARFIELD
SAN JUAN
WASHINGTON
KANE



This form is classified as
PRIVATE under the Utah
Information Practices Act

CERTIFICATE OF LIVE BIRTH

STATE OF UTAH — DIVISION OF HEALTH

LOCAL FILE NUMBER

STATE BIRTH NUMBER

TYPE OR PRINT • USE BLACK INK

CHILD

1. CHILD—NAME FIRST MIDDLE LAST
2. SEX
3a. DATE OF BIRTH (Mo., Day, Year)
3b. HOUR (24 hr. clock)
4a. PLACE OF BIRTH—HOSPITAL NAME (If not in hospital, give street and number)
4b. CITY, TOWN OR LOCATION OF BIRTH
4c. COUNTY OF BIRTH

CERTIFIER

I CERTIFY THAT THE ABOVE NAMED CHILD WAS BORN ALIVE AT THE PLACE AND TIME AND ON THE DATE STATED ABOVE.
5a. Signature ▶

I CERTIFY THAT THE ABOVE NAMED CHILD WAS BORN ALIVE AT THE PLACE AND TIME AND ON THE DATE STATED ABOVE.
6a. Attendant Signature ▶

5b. CERTIFIER'S NAME AND TITLE (Type and check box) Hospital Administrator Designated Representative
5c. DATE SIGNED (Mo., Day, Year)
6b. Attendant—NAME, TITLE (MD, DO, Certified Midwife, other) AND LICENSE NO. (type or print)

REGISTRAR

7a. REGISTRAR—(Signature) ▶
7b. DATE RECEIVED BY REGISTRAR (Mo., Day, Year)
6c. MAILING ADDRESS OF ATTENDANT (Street or R.F.D. No., City or Town, State, Zip)

MOTHER

8. MOTHER—MAIDEN NAME FIRST MIDDLE LAST
9. DATE OF BIRTH (Mo., Day, Year) AGE
10. STATE OF BIRTH (If not in USA, name country)
11a. RESIDENCE—STREET AND NUMBER OF RESIDENCE
11b. CITY, TOWN OR LOCATION
11c. INSIDE CITY LIMITS YES NO
11d. COUNTY
11e. STATE
12a. MOTHER'S MAILING ADDRESS—If same as above, enter Zip Code only. STREET ADDRESS OR P.O. BOX NUMBER
12b. CITY OR TOWN
12c. STATE
12d. ZIP CODE

FATHER

13. FATHER—NAME FIRST MIDDLE LAST
14. DATE OF BIRTH (Mo., Day, Year) AGE
15. STATE OF BIRTH (If not in U.S.A., name country)

INFORMANT

I certify that the personal information provided on this certificate is correct to the best of my knowledge and belief.
16a. Signature of Parent or Other Informant ▶
16b. RELATION TO CHILD

PRIVATE INFORMATION FOR MEDICAL AND HEALTH USE ONLY

TO BE COMPLETED BY PARENTS

SPANISH ORIGIN?
17a. Mother Yes No — If yes, indicate: Mexican, Cuban, Puerto Rican, Other (Specify)
17b. Father Yes No — If yes, indicate: Mexican, Cuban, Puerto Rican, Other (Specify)

USUAL OCCUPATION (Kind of work usually done even if not currently employed) (Specify)
18a. MOTHER
18b. FATHER

EDUCATION (Specify only highest grade completed) Elementary or [illegible]
20a. MOTHER
20b. FATHER

RACE (e.g., White, Black, American Indian, etc.) (Specify)
21a. MOTHER
21b. FATHER

22. IS MOTHER MARRIED? YES NO
23. [illegible] YES NO

PREGNANCY HISTORY (Complete each section)

LIVE BIRTHS (Do not include this Child)
19a. Now living No. ____ None
19b. Now dead No. ____ None
19c. DATE of last Live Birth (Mo., Year)

OTHER TERMINATIONS (Spontaneous and induced)
19d. Before 20 weeks No. ____ None
19e. After 20 weeks No. ____ None
19f. DATE of last Other Termination (as indicated in 19d or e above) (Mo., Year)

TO BE COMPLETED BY PHYSICIAN OR FROM MEDICAL CHART

24a. THIS BIRTH Single, twin, triplet, etc. (Specify)
24b. If not single birth—Born first, second, third, etc. (Specify)
25. COMPLICATIONS OF PREGNANCY (Describe or write "none")
26. DATE Last normal menses began (Mo., Day, Year)
27. Month of Pregnancy Prenatal Care began—First, second, etc. (Specify)
28. CONCURRENT ILLNESSES OR CONDITIONS AFFECTING THE PREGNANCY (Describe or write "none")
APGAR SCORE 31a. 1 min. 31b. 5 min.
29. PRENATAL VISITS Total No. (If none, so state)
30. METHOD OF DELIVERY (Check all applicable boxes) Spontaneous Vaginal, Mid Forceps, Caesarean Section; If Caesarean, was it: Emergency, Elective, Primary, Repeat
32. BIRTH WEIGHT (Grams)
33. CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD (Describe or write "none")

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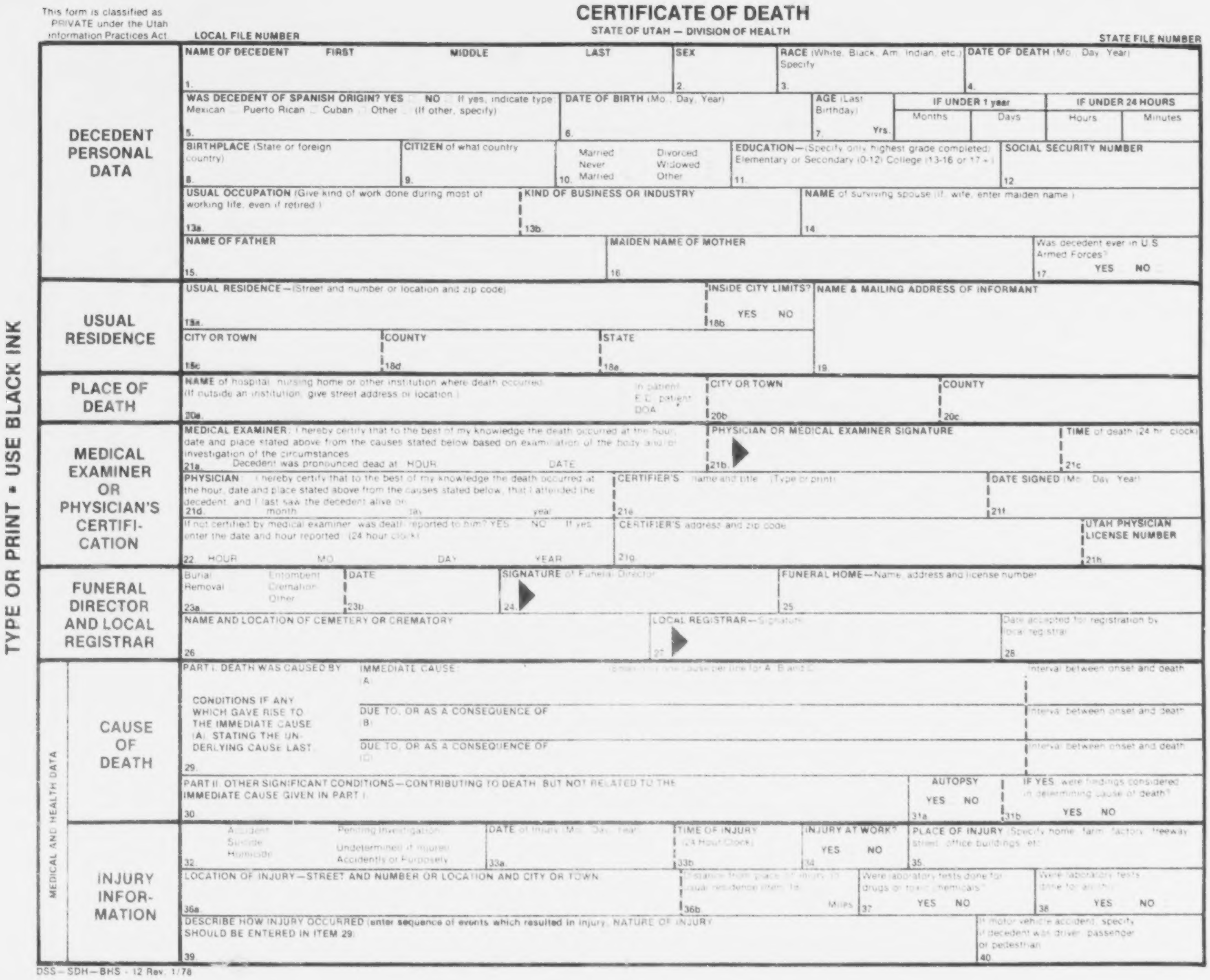
FIGURE C-2



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LOCAL FILE NUMBER

CERTIFICATE OF DEATH

STATE OF UTAH — DIVISION OF HEALTH

STATE FILE NUMBER

TYPE OR PRINT • USE BLACK INK

DECEDENT PERSONAL DATA

1. NAME OF DECEDENT FIRST MIDDLE LAST
2. SEX
3. RACE (White, Black, Am. Indian, etc.) Specify
4. DATE OF DEATH (Mo., Day, Year)
5. WAS DECEDENT OF SPANISH ORIGIN? YES ☐ NO ☐ If yes, indicate type: Mexican ☐ Puerto Rican ☐ Cuban ☐ Other ☐ (If other, specify)
6. DATE OF BIRTH (Mo., Day, Year)
7. AGE (Last Birthday) Yrs. IF UNDER 1 year: Months Days; IF UNDER 24 HOURS: Hours Minutes
8. BIRTHPLACE (State or foreign country)
9. CITIZEN of what country
10. Married Never Married Divorced Widowed Other
11. EDUCATION—(Specify only highest grade completed) Elementary or Secondary (0-12) College (13-16 or 17+)
12. SOCIAL SECURITY NUMBER

13a. USUAL OCCUPATION (Give kind of work done during most of working life, even if retired.)

13b. KIND OF BUSINESS OR INDUSTRY

14. NAME of surviving spouse (If wife, enter maiden name.)
15. NAME OF FATHER
16. MAIDEN NAME OF MOTHER
17. Was decedent ever in U.S. Armed Forces? YES ☐ NO ☐

USUAL RESIDENCE

18a. USUAL RESIDENCE—(Street and number or location and zip code)

18b. INSIDE CITY LIMITS? YES ☐ NO ☐

18c. CITY OR TOWN

18d. COUNTY

18e. STATE

19. NAME & MAILING ADDRESS OF INFORMANT

PLACE OF DEATH

20a. NAME of hospital, nursing home or other institution where death occurred. (If outside an institution, give street address or location.) In patient ☐ E.C. patient ☐ DOA ☐

20b. CITY OR TOWN

20c. COUNTY

MEDICAL EXAMINER OR PHYSICIAN'S CERTIFICATION

21a. MEDICAL EXAMINER: I hereby certify that to the best of my knowledge the death occurred at the hour, date and place stated above from the causes stated below based on examination of the body and/or investigation of the circumstances. Decedent was pronounced dead at: HOUR DATE

21b. PHYSICIAN OR MEDICAL EXAMINER SIGNATURE ▶

21c. TIME of death (24 hr. clock)

21d. PHYSICIAN: I hereby certify that to the best of my knowledge the death occurred at the hour, date and place stated above from the causes stated below, that I attended the decedent, and I last saw the decedent alive on: month day year

21e. CERTIFIER'S name and title (Type or print)

21f. DATE SIGNED (Mo., Day, Year)

22. If not certified by medical examiner, was death reported to him? YES ☐ NO ☐ If yes, enter the date and hour reported: (24 hour clock) HOUR MO. DAY YEAR

21g. CERTIFIER'S address and zip code

21h. UTAH PHYSICIAN LICENSE NUMBER

FUNERAL DIRECTOR AND LOCAL REGISTRAR

23a. Burial ☐ Removal ☐ Entombment ☐ Cremation ☐ Other ☐

23b. DATE

24. SIGNATURE of Funeral Director ▶
25. FUNERAL HOME—Name, address and license number
26. NAME AND LOCATION OF CEMETERY OR CREMATORY
27. LOCAL REGISTRAR—Signature ▶
28. Date accepted for registration by local registrar

MEDICAL AND HEALTH DATA

CAUSE OF DEATH

29. PART I. DEATH WAS CAUSED BY: IMMEDIATE CAUSE: (A) (Enter only one cause per line for A, B and C) — Interval between onset and death
    CONDITIONS IF ANY WHICH GAVE RISE TO THE IMMEDIATE CAUSE (A), STATING THE UNDERLYING CAUSE LAST.
    DUE TO, OR AS A CONSEQUENCE OF (B) — Interval between onset and death
    DUE TO, OR AS A CONSEQUENCE OF (C) — Interval between onset and death
30. PART II. OTHER SIGNIFICANT CONDITIONS—CONTRIBUTING TO DEATH BUT NOT RELATED TO THE IMMEDIATE CAUSE GIVEN IN PART I.

31a. AUTOPSY YES ☐ NO ☐

31b. IF YES, were findings considered in determining cause of death? YES ☐ NO ☐

INJURY INFORMATION

32. Accident ☐ Suicide ☐ Homicide ☐ Pending Investigation ☐ Undetermined if injured Accidently or Purposely ☐

33a. DATE of Injury (Mo., Day, Year)

33b. TIME OF INJURY (24 Hour Clock)

34. INJURY AT WORK? YES ☐ NO ☐
35. PLACE OF INJURY (Specify home, farm, factory, freeway, street, office buildings, etc.)

36a. LOCATION OF INJURY—STREET AND NUMBER OR LOCATION AND CITY OR TOWN

36b. Distance from place of injury to usual residence (item 18) Miles

37. Were laboratory tests done for drugs or toxic chemicals? YES ☐ NO ☐
38. Were laboratory tests done for alcohol? YES ☐ NO ☐
39. DESCRIBE HOW INJURY OCCURRED (enter sequence of events which resulted in injury. NATURE OF INJURY SHOULD BE ENTERED IN ITEM 29)
40. If motor vehicle accident, specify if decedent was driver, passenger or pedestrian

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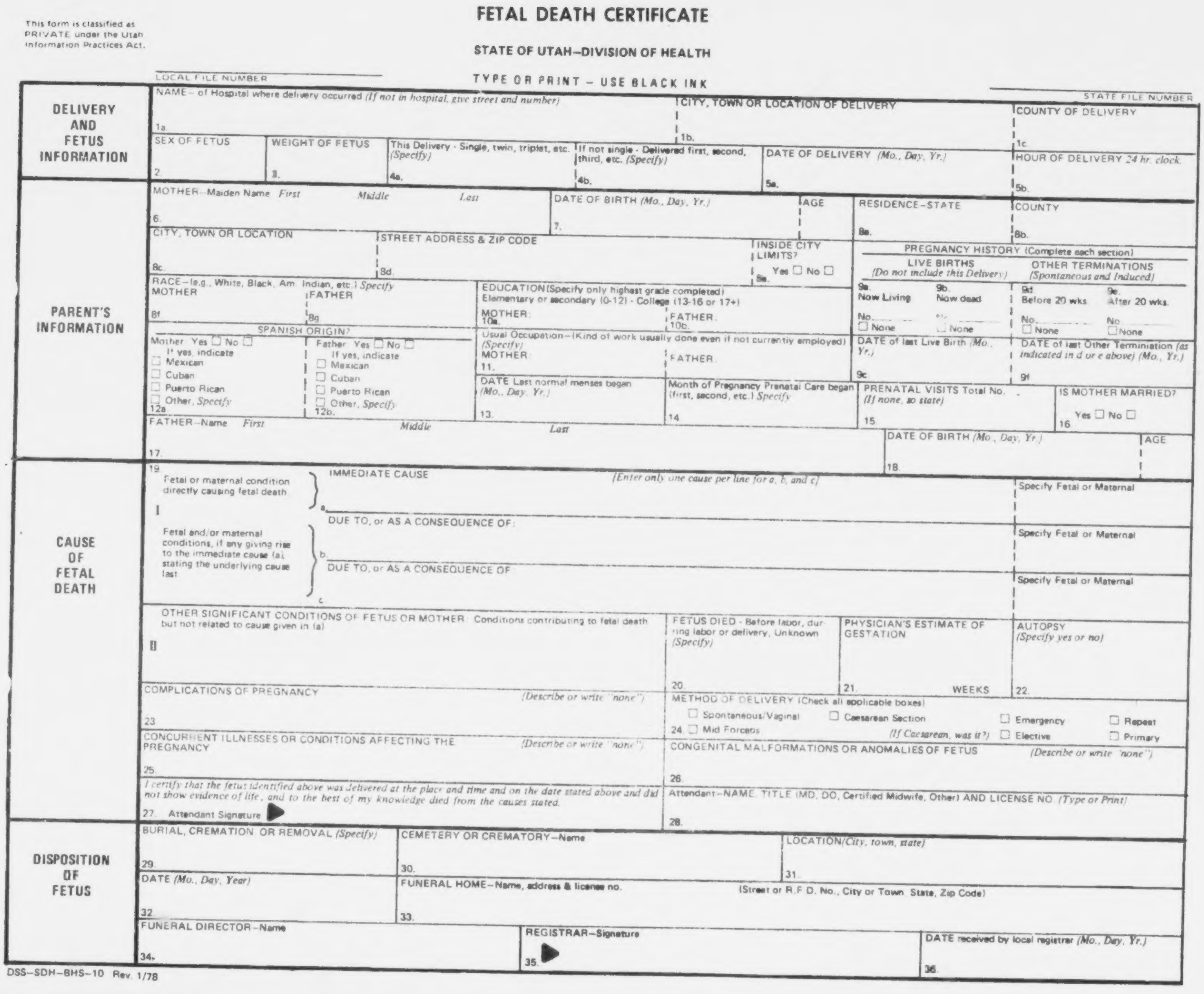
FIGURE C-3



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FETAL DEATH CERTIFICATE

STATE OF UTAH–DIVISION OF HEALTH

TYPE OR PRINT – USE BLACK INK

LOCAL FILE NUMBER

STATE FILE NUMBER

DELIVERY AND FETUS INFORMATION

1a. NAME – of Hospital where delivery occurred *(If not in hospital, give street and number)*
1b. CITY, TOWN OR LOCATION OF DELIVERY
1c. COUNTY OF DELIVERY
2. SEX OF FETUS
3. WEIGHT OF FETUS
4a. This Delivery - Single, twin, triplet, etc. *(Specify)*
4b. If not single - Delivered first, second, third, etc. *(Specify)*
5a. DATE OF DELIVERY *(Mo., Day, Yr.)*
5b. HOUR OF DELIVERY *24 hr. clock*

PARENT'S INFORMATION

6. MOTHER–Maiden Name *First* *Middle* *Last*
7. DATE OF BIRTH *(Mo., Day, Yr.)*
AGE
8a. RESIDENCE–STATE
8b. COUNTY
8c. CITY, TOWN OR LOCATION
8d. STREET ADDRESS & ZIP CODE
8e. INSIDE CITY LIMITS? Yes ☐ No ☐
RACE–(e.g., White, Black, Am indian, etc.) *Specify*
8f MOTHER
8g FATHER

SPANISH ORIGIN?
12a. Mother Yes ☐ No ☐
If yes, indicate
☐ Mexican
☐ Cuban
☐ Puerto Rican
☐ Other, *Specify*
12b. Father Yes ☐ No ☐
If yes, indicate
☐ Mexican
☐ Cuban
☐ Puerto Rican
☐ Other, *Specify*

EDUCATION (Specify only highest grade completed) Elementary or secondary (0-12) - College (13-16 or 17+)
10a. MOTHER:
10b. FATHER:
Usual Occupation–(Kind of work usually done even if not currently employed) *(Specify)*
11. MOTHER:
FATHER:
13. DATE Last normal menses began *(Mo., Day, Yr.)*
14. Month of Pregnancy Prenatal Care began (first, second, etc.) *Specify*

PREGNANCY HISTORY (Complete each section)

LIVE BIRTHS *(Do not include this Delivery)*		OTHER TERMINATIONS *(Spontaneous and Induced)*	
9a. Now Living	9b. Now dead	9d. Before 20 wks.	9e. After 20 wks.
No. ☐ None	No. ☐ None	No. ☐ None	No. ☐ None
DATE of last Live Birth *(Mo., Yr.)* 9c		DATE of last Other Termination *(as indicated in d or e above) (Mo., Yr.)* 9f	

15. PRENATAL VISITS Total No. *(If none, so state)*
16. IS MOTHER MARRIED? Yes ☐ No ☐
17. FATHER–Name *First* *Middle* *Last*
18. DATE OF BIRTH *(Mo., Day, Yr.)*
AGE

CAUSE OF FETAL DEATH

19
I Fetal or maternal condition directly causing fetal death
a. IMMEDIATE CAUSE *[Enter only one cause per line for a, b, and c]* — Specify Fetal or Maternal
Fetal and/or maternal conditions, if any giving rise to the immediate cause (a), stating the underlying cause last
b. DUE TO, or AS A CONSEQUENCE OF: — Specify Fetal or Maternal
c. DUE TO, or AS A CONSEQUENCE OF — Specify Fetal or Maternal
II OTHER SIGNIFICANT CONDITIONS OF FETUS OR MOTHER Conditions contributing to fetal death but not related to cause given in (a)
20. FETUS DIED - Before labor, during labor or delivery, Unknown *(Specify)*
21. PHYSICIAN'S ESTIMATE OF GESTATION WEEKS
22. AUTOPSY *(Specify yes or no)*
23. COMPLICATIONS OF PREGNANCY *(Describe or write "none")*
24. METHOD OF DELIVERY (Check all applicable boxes)
☐ Spontaneous/Vaginal ☐ Caesarean Section ☐ Emergency ☐ Repeat
☐ Mid Forceps *(If Caesarean, was it?)* ☐ Elective ☐ Primary
25. CONCURRENT ILLNESSES OR CONDITIONS AFFECTING THE PREGNANCY *(Describe or write "none")*
26. CONGENITAL MALFORMATIONS OR ANOMALIES OF FETUS *(Describe or write "none")*

I certify that the fetus identified above was delivered at the place and time and on the date stated above and did not show evidence of life, and to the best of my knowledge died from the causes stated.

27. Attendant Signature ▶
28. Attendant–NAME, TITLE (MD, DO, Certified Midwife, Other) AND LICENSE NO. *(Type or Print)*

DISPOSITION OF FETUS

29. BURIAL, CREMATION OR REMOVAL *(Specify)*
30. CEMETERY OR CREMATORY–Name
31. LOCATION *(City, town, state)*
32. DATE *(Mo., Day, Year)*
33. FUNERAL HOME–Name, address & license no. (Street or R.F.D. No., City or Town, State, Zip Code)
34. FUNERAL DIRECTOR–Name
35. REGISTRAR–Signature ▶
36. DATE received by local registrar *(Mo., Day, Yr.)*

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FIGURE C-4

fact, coupled with information from sample studies, indicates that the completeness of birth certificate registration now exceeds 99 percent. It is recognized that there is some under-registration of infants who die shortly after birth.

The registration of fetal deaths of more than 20 weeks gestation is required by statute. Many fetal deaths are not medically attended and frequently they may not be identified as fetal deaths, thus it is widely recognized that there is incomplete registration of fetal deaths. Because of this under-registration of fetal deaths the Utah data probably understates the size of this problem and the statistics about associated factors and causes of fetal deaths may be unreliable.

Death certificate registration is thought to be nearly 100 percent complete because a death certificate must be filed before disposition of the remains can be made. There may be some under-registration of infant deaths occurring in the first day of life.

Limitations of Small Numbers

All statistics are subject to chance variation. Such random variation in a large number of events has little effect on the data for the group, however, random variation in a small number of events may result in a startling change in the data for the group. For example, minor differences in the number of births or deaths in small populations or in the number of deaths from uncommon causes may result in large changes in these rates. Rates for areas of small population or for events with few occurrences should be interpreted with this limitation in mind.

Vital Statistics Rates and Ratios

Vital Statistics data provide better measures of health status when they are related to the size of the population (rates) and particularly to the age and sex components of the population (age and sex-specific rates). During the intercensus years, the validity of vital statistics' rates depends upon the accuracy of population estimates. The State total population estimates used in this were prepared by the U.S. Bureau of the Census. The county population estimates were prepared by the Utah Population Work Committee. The estimates include the resident military and civilian populations.

For the most part, rates presented in this report are crude rates, i.e., the number of events per 1,000 total population. Crude rates are limited for purposes of making comparisons among geographic areas, and for changes over periods of time because they ignore characteristics of the population such as age and sex.

Intercensus population estimates by age have been made for 1970 and the present year. These estimates and the resulting age-specific rates are provisional.

Infant deaths include all deaths of persons under 1 year of age. Fetal deaths include all deaths of fetuses of 20 or more weeks gestation.

The infant and fetal death rates are respectively the number of infant and fetal deaths per 1,000 live births.

Maternal deaths include any death that results from complications of pregnancy, childbirth, and the puerperium. Because of the infrequency of maternal deaths in Utah they are usually expressed as absolute numbers only.

Cause of Death

Cause of death statistics are derived from the medical certification information required by law to be reported on the death or fetal death certificate by the attending physician or medical examiner. The medical certification item on certificates of death and fetal death has provisions for reporting three causes of death--immediate, intervening, and underlying, plus additional information related to the cause of death. The cause of death selected for coding and tabulating mortality statistics is the "underlying cause of death," which is generally defined as the disease or injury which initiated the sequence of morbid events leading directly to death.

Occasionally, death certificates are registered with the cause of death information incomplete, inconsistent, or equivocal, and additional information from the certifier is not available. In such cases, selection and modification rules are used to select the underlying cause of death for statistical purposes. Before 1949, a set of priority tables in the Manual of Joint Causes of Death served this function. Selection and modification rules and other rules and decisions which adapt the coding procedures to reporting practices in the United States are published by the Public Health Service, National Center for Health Statistics, in annual editions of the Vital Statistics Instruction Manual. From 1955 to 1967, cause of death data in Utah was determined from the underlying cause coded by using the Seventh Revision International Classification of Diseases, along with the appropriate annual Vital Statistics instruction manuals of the Public Health Service. As of January 1, 1968, the Eighth Revision International Classification of Diseases was used in classifying the underlying cause of death on Utah death certificates. The Eighth Revision, published in 1968, adopted newer concepts of classification of diseases, with a reclassification of various diseases under new headings. As a result, comparability of various diseases from year to year may be seriously affected in examining vital statistics data. For example, fetal deaths are no longer listed in a separate statistical category. They are now included in the regular list of either "congenital anomalies" (740-759) or "certain causes of prenatal morbidity and mortality" (760-779). In another example, the classification of death due to "diseases of the circulatory system" has been substantially revised to give considerably greater emphasis to hypertension and its manisfestations. Additionally, acute myocardial infarction is differentiated from other forms of ischemic heart disease.

Geographic Bases

Birth and death data are presented by place of occurrence of the event or by place of usual residence of the individual. For deaths, "place of residence" is defined as the residence of the decedent. For births, "place of residence" for the child is defined as the usual residence of the mother.

Re-allocation of birth and death certificates to the state of residence has been virtually complete on a nationwide basis since 1955. This was made possible by a cooperative program among the states for exchange of copies of certificates of nonresident events.

It is considered to be meaningful for some purposes to tabulate accidental deaths by place of occurrence rather than by place of residence. Statistical tabulations of accidental deaths "by place of occurrence" refer to the place where the death occurred, and not the place where the accident occurred. A hypothetical example may help to clarify the above explanation. Assume that an individual from Denver, Colorado is involved in a motor vehicle accident in Wendover, Nevada and required emergency aid of a special nature. The closest available facility is at the University Medical Center in Salt Lake City, Utah. After arriving at the hospital, the patient succumbs to conditions arising from the accident. In such a case, the "place of occurrence" for statistical purposes would be Salt Lake City, Utah, not Wendover, Nevada.

Total Live Births

In the process of preparing the reference tables for 1975, it was found that the procedure used for coding the number of "total live births" resulted in over-stating the number of "first births" by an estimated 8 to 12 percent. This coding procedure was changed in 1976 to reflect the recorded number of "first births." Because of this change the number of children ever born (total live births per woman) can not be compared directly to previous years' data of children ever born. Also, the distributions of birth order between 1976 and prior years' data are not comparable.

57835-1

UTAH VITAL STATISTICS

ANNUAL REPORT

1979

Utah State Department of Health
Office of Management Planning
Bureau of Health Statistics
150 West North Temple
Salt Lake City, Utah 84103

James Mason, M.D., Dr.P.H.
Executive Director

John E. Brockert, M.S., M.P.H.
Director, Bureau of Health Statistics

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April 1981

PREFACE

This report contains data about vital statistics events that occurred to Utah residents in 1979. The source of these data is the approximately 50,000 birth and death certificates registered for 1979 in the Bureau of Health Statistics of the Utah State Department of Health.

The purpose of this report is to provide needed data for planners, students, researchers, public officials, private business and the general public. Data are presented for the State of Utah, the multi-county districts, and each of its counties. Marriage and divorce statistics are provided as totals in this report. Another report of the Bureau treats them more extensively.

The initial part of this report contains a narrative section with tables and charts to provide some analyses and explanation of these data. This is followed by a section of reference tables with more detailed information. A listing of other tables omitted from this report appears at the end of the table of contents. These tabulations will be provided upon request to the Bureau. The last section of the report is the Technical Appendix with information on the sources, definitions, quality, and limitations of the data.

This publication was prepared by the staff of the Bureau of Health Statistics under the direction of John E. Brockert, Director and Marvin Levy, Deputy Director. The statistical tabulations and analyses were prepared by Gery E. Moore, Statistician. Marie Wonnacott prepared the manuscript for printing.

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INTRODUCTION

AN OVERVIEW OF UTAH'S VITAL STATISTICS

The estimated population of Utah for July 1, 1979 was 1,367,000 persons. This compares with a 1978 figure of 1,317,000, an increase of 3.8 percent. During the same period of time the U.S. population increased 0.6 percent.

There were 41,078 live births recorded to Utah residents. This represented a birth rate of 30.0 live births per 1,000 population. The corresponding U.S. rate was 15.8.[1] [2]

There were 7,871 Utah resident deaths, resulting in a mortality rate of 5.8 deaths per 1,000 population. The corresponding rate for the United States was 8.7.[2]

The rate of natural increase in Utah was 24.3 persons per 1,000 population. The rate nationally was 7.1 persons per 1,000 population.

There were 438 Utah residents who died in infancy. This represented an infant mortality rate of 10.7 infant deaths per 1,000 live births. The corresponding U.S. rate was 13.0. Of these 438 infants, 278 died during the neonatal period, under 28 days of age. The neonatal mortality rate was 6.8 deaths per 1,000 live births. The neonatal mortality rate nationally was 8.7 per 1,000 live births.[2]

There were 317 stillbirths to Utah residents, representing a fetal mortality rate of 7.7 fetal deaths per 1,000 live births in 1979. The latest fetal mortality rate for the United States was 9.9 in 1977.

There were six resident females who died of maternal-related conditions. This represents a maternal mortality rate of 14.6 deaths per 100,000 live births. The corresponding U.S. rate was 7.8.

---

[1] All rate comparisons with the United States are for 1979 unless otherwise indicated.

[2] Monthly Vital Statistics Annual Summary for U.S., 1979 (PHS) 81-1120, Vol. 28, No. 13 (National Center for Health Statistics, Hyattsville, Maryland 20782), November 13, 1980.

There were 16,713 marriages performed and 7,594 divorces and annulments granted in Utah in 1979. This gave Utah marriage and divorce rates of 12.2 and 5.6 per 1,000 population, respectively. More detailed data will be found in the annual report, Utah Marriage and Divorce 1979.

The trends of Utah's Vital events since 1935 are presented in Table 2 and Figure 1.

The national birthrate has shown a slight increase since 1976; however, the Utah rate has been relatively constant since 1976, but is consistently higher than the national rate (Table 3). Two factors account for the difference in these rates: the first is the slightly higher percentage of females in the childbearing ages, 15-44, in Utah compared to the United States (Table 1); and second, residents of Utah apparently desire to have large families. The average number of children ever born to women ever married in Utah, ages 15-44, was 3.9 compared to the average of 3.1 in the United States.

TABLE 1

PERCENTAGE DISTRIBUTION OF FEMALES BY AGE GROUPS: UTAH AND UNITED STATES, 1979

	Utah	U.S.*
Total	100.0	100.0
Under 15	29.9	27.3
15-44	45.0	40.7
45-64	16.6	20.9
65+	8.5	11.2

*U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 493, "Projections of the Population of the United States, by Age and Sex: 1972 to 2020," U.S. Government Printing Office, Washington, D.C., 1972.

Utah's population has a different age distribution than the United States (Figure 2). The younger-aged population in Utah partially accounts for the differences in the crude birth and death rates. These rates are illustrated in Figure 3 for the years 1955-1979.

General Social and Economic Characteristics, U.S. Bureau of the Census, Census of Population; 1970, Final Report PC(1)-C 46, Utah, February 1972, pages 46-119.

TABLE 2

STATISTICAL SUMMARY (ESTIMATED MIDYEAR POPULATION, LIVE BIRTHS, DEATHS MATERNAL DEATHS, INFANT DEATHS, FETAL DEATHS, MARRIAGES, AND DIVORCES AND ANNULMENTS): UTAH, 1935-1979

Year	Estimated[1] Midyear Population	Live Births	Deaths	Maternal Deaths	Infant Deaths	Fetal Deaths	Marriages	Divorces and Annulments
1979	1,367,000	41,078	7,871	6	438	317	16,713	7,594
1978	1,317,000	38,811	7,871	2	443	283	16,489	7,175
1977	1,270,000	37,956	7,612	4	381	318	15,098	6,947
1976	1,232,000	35,310	7,472	7	414	275	14,693	6,170
1975	1,203,000	31,667	7,519	6	415	257	14,058	6,131
1974	1,179,000	29,946	7,380	2	364	286	15,164	5,670
1973	1,150,000	27,978	7,573	5	354	219	14,840	5,137
1972	1,128,000	26,911	7,323	12	360	263	13,911	4,876
1971	1,095,000	27,552	7,245	2	382	258	12,497	4,419
1970	1,066,000	26,969	7,063	6	405	298	11,938	3,912
1969	1,047,000	24,232	6,791	4	382	238	11,633	3,841
1968	1,029,000	23,193	6,882	3	410	240	11,558	3,390
1967	1,019,000	22,948	6,516	3	383	241	10,220	3,288
1966	1,009,000	22,601	6,850	5	414	222	9,623	3,090
1965	991,000	22,261	6,672	5	419	224	8,736	2,872
1964	978,000	23,844	6,404	3	482	237	8,525	2,895
1963	974,000	24,952	6,544	4	464	288	8,194	2,659
1962	958,000	26,213	6,325	9	525	290	7,651	2,480
1961	936,000	26,590	6,081	7	538	263	7,401	2,360
1960	900,000	26,272	5,997	5	517	276	7,119	2,167
1959	870,000	25,645	5,879	10	514	321	6,734	2,179
1958	845,000	25,384	5,809	10	564	325	6,600	2,002
1957	826,000	26,064	5,696	8	561	317	6,672	1,565
1956	809,000	25,449	5,579	7	571	320	6,657	2,189
1955	783,000	25,103	5,382	7	507	330	6,294	2,059
1954	750,000	24,905	5,294	6	506	325	6,295	2,140
1953	739,000	24,147	5,394	5	565	301	6,926	2,433
1952	724,000	24,236	5,495	11	590	313	6,752	2,331
1951	706,000	22,853	5,204	10	565	276	6,843	2,271
1950	696,000	21,535	5,048	7	506	256	7,110	2,107
1949	671,000	20,984	4,788	5	527	297	6,402	2,166
1948	653,000	20,869	5,070	12	550	298	7,327	2,199
1947	636,000	21,724	4,996	17	545	303	7,965	2,927
1946	638,000	18,220	4,785	25	496	293	9,781	3,434
1945	591,000	15,680	4,859	21	488	268	7,034	2,651
1944	605,000	15,180	4,957	22	548	248	6,262	2,995
1943	631,000	17,161	5,054	27	539	275	6,705	1,982
1942	575,000	15,822	4,849	27	522	281	6,081	1,433
1941	551,000	13,548	4,518	26	402	268	7,263	1,360
1940	554,000	13,347	4,845	36	539	253	8,254	1,500
1939	543,000	13,007	4,712	40	544	278	([2])	([2])
1938	535,000	13,214	4,853	40	610	280	([2])	([2])
1937	529,000	12,693	4,989	42	525	262	([2])	([2])
1936	527,000	12,551	5,126	55	661	255	([2])	([2])
1935	526,000	12,695	5,066	59	625	274	([2])	([2])

[1] The population estimates for 1935-1959 have been revised to agree with U.S. census estimates and will not agree with prior reports in this series.

[2] Information not available.

FIGURE 1. TRENDS IN POPULATION, BIRTHS, DEATHS, AND NATURAL INCREASE: UTAH, 1935-1979

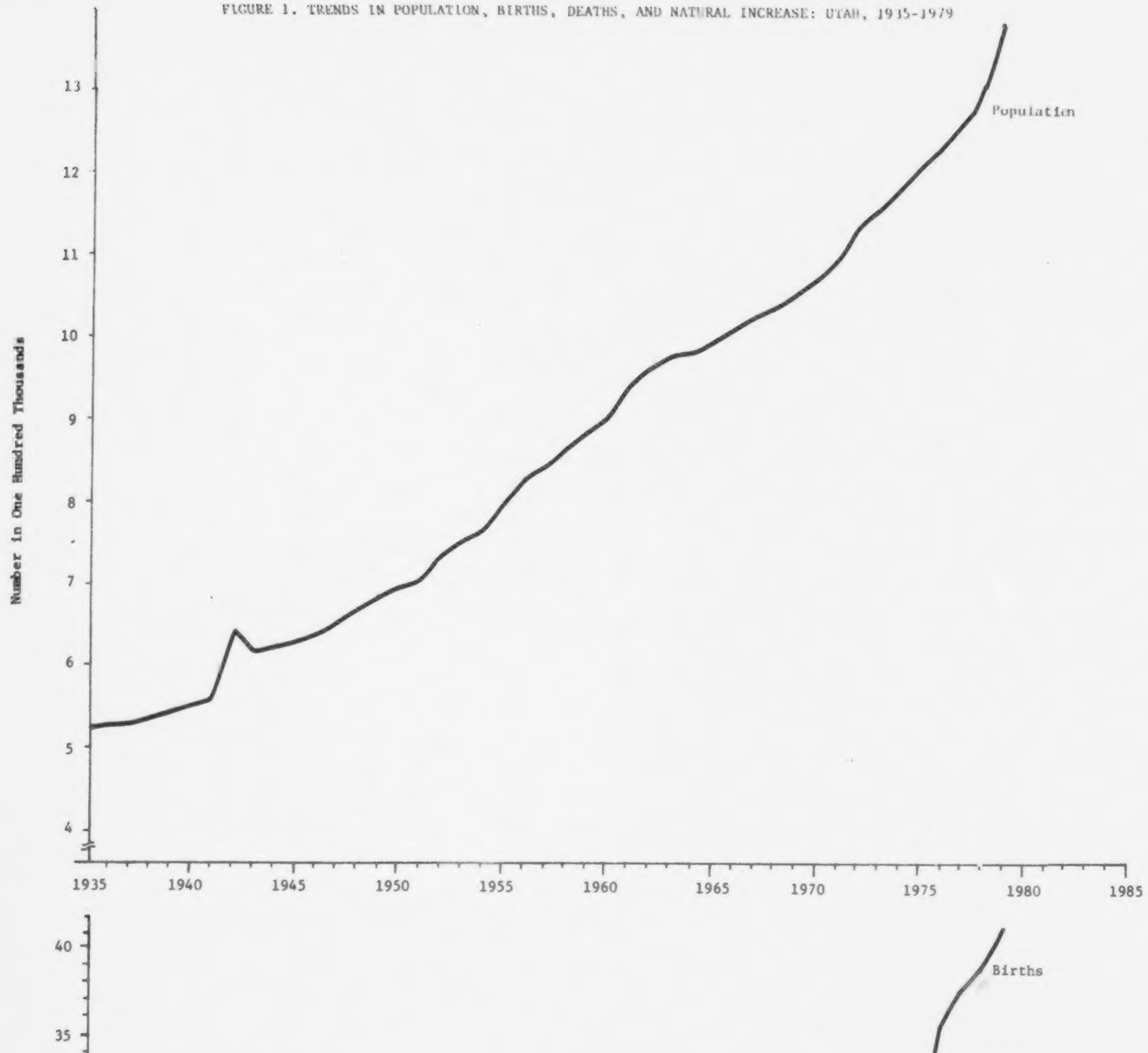

TABLE 3

COMPARISON OF VITAL STATISTICS RATES: U.S.* AND UTAH, 1950-1979

Year	Birth		Death		Natural Increase		Maternal Death		Infant Death		Fetal Death		Marriage		Divorce and Annulment	
	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah	U.S.	Utah
1979	15.8	30.0	8.7	5.8	7.1	24.2	0.1	0.1	13.0	10.7	N.A.	7.7	10.7	12.2	5.3	5.6
1978	15.3	29.5	8.8	6.0	6.5	23.5	0.1	0.1	14.2	11.4	N.A.	7.3	10.3	12.5	5.2	5.4
1977	14.8	29.9	8.8	6.0	6.0	23.9	0.1	0.1	14.1	10.0	9.9	8.3	10.1	11.9	5.0	5.5
1976	14.7	28.7	8.9	6.1	5.8	22.6	0.1	0.2	15.1	11.7	10.5	7.8	9.9	11.9	5.0	5.0
1975	14.8	26.3	9.0	6.3	5.8	20.1	0.1	0.2	16.1	13.1	10.7	8.1	10.0	12.4	4.8	5.1
1974	15.0	25.4	9.1	6.3	5.9	19.3	0.1	0.1	16.7	12.2	11.5	9.6	10.5	12.9	4.6	4.8
1973	14.9	24.3	9.4	6.6	5.5	17.7	0.2	0.2	17.7	12.7	12.2	7.8	10.9	12.9	4.4	4.5
1972	15.6	23.9	9.4	6.5	6.2	17.4	0.2	0.4	18.5	13.4	12.7	9.8	11.0	12.3	4.0	4.2
1971	17.2	25.2	9.3	6.6	7.9	18.6	0.2	0.1	19.1	13.9	13.4	10.8	10.6	11.4	3.7	3.8
1970	18.7	25.3	9.5	6.6	9.2	18.7	0.2	0.2	20.0	15.0	14.2	11.0	10.6	11.2	3.5	3.7
1969	17.8	23.1	9.5	6.5	8.3	16.6	0.2	0.2	20.9	15.8	14.1	9.8	10.6	11.1	3.2	3.7
1968	17.5	22.5	9.7	6.7	7.8	15.7	0.2	0.1	21.8	17.7	15.8	10.3	10.4	11.2	2.9	3.3
1967	17.8	22.5	9.4	6.4	8.4	16.0	0.3	0.1	22.4	16.7	15.6	10.5	9.7	10.0	2.6	3.2
1966	18.4	22.4	9.5	6.8	8.9	15.6	0.3	0.2	23.7	18.3	15.7	9.8	9.4	9.5	2.5	3.1
1965	19.4	22.4	9.4	6.7	10.0	15.7	0.3	0.2	24.7	18.8	16.2	10.1	9.3	8.8	2.5	2.9
1964	21.0	24.4	9.4	6.5	11.6	17.9	0.3	0.1	24.8	20.2	16.4	9.9	9.0	8.7	2.4	3.0
1963	21.7	25.6	9.5	6.7	12.2	19.0	0.4	0.2	25.2	18.6	15.8	11.4	8.8	8.4	2.3	2.7
1962	22.4	27.3	9.4	6.6	13.0	17.9	0.4	0.3	25.3	20.0	15.9	11.1	8.5	8.0	2.2	2.6
1961	23.3	28.4	9.3	6.5	14.0	20.8	0.4	0.3	25.3	20.2	16.1	9.9	8.5	7.9	2.3	2.5
1960	23.7	29.2	9.5	6.7	14.2	22.9	0.4	0.2	26.0	19.6	16.1	10.4	8.5	7.9	2.2	2.4
1959	24.0	29.1	9.3	6.7	14.7	22.4	0.4	0.4	26.4	20.0	16.2	12.5	8.5	7.6	2.2	2.5
1958	24.3	29.6	9.4	6.8	14.9	22.8	0.4	0.4	27.1	22.2	16.5	12.8	8.4	7.7	2.1	2.3
1957	25.0	31.0	9.5	6.8	15.5	24.2	0.4	0.3	26.3	21.5	16.3	12.2	8.9	7.9	2.2	1.9
1956	24.9	30.8	9.3	6.8	15.6	24.0	0.4	0.3	26.0	22.4	16.5	12.6	9.5	8.1	2.3	2.7
1955	24.6	31.4	9.2	6.7	15.4	24.7	0.5	0.3	26.4	20.2	17.1	13.1	9.3	8.7	2.3	2.6
1954	24.9	32.6	9.1	6.9	15.8	25.7	0.5	0.2	26.6	20.3	17.5	13.0	9.2	8.3	2.4	2.8
1953	24.7	32.2	9.4	7.2	15.3	25.0	0.6	0.2	27.8	23.4	17.8	12.5	9.8	9.2	2.5	3.2
1952	24.7	33.2	9.4	7.5	15.3	25.7	0.7	0.4	28.4	24.3	18.3	12.9	9.9	9.2	2.5	3.2
1951	24.5	32.2	9.5	7.3	15.0	24.9	0.8	0.4	28.4	24.7	18.8	12.1	10.4	9.6	2.5	3.2
1950	23.6	30.9	9.5	7.3	14.1	23.6	0.8	0.3	29.2	23.5	19.2	12.3	11.1	10.2	2.6	3.0

*Monthly Vital Statistics Report Annual Summary for U.S., 1978 (PHS) 79-1120, Vol. 27, No. 13 (National Center for Health Statistics, Hyattsville, Maryland 20782), August 13, 1979.

FIGURE 2. POPULATION BY AGE AND SEX: (PERCENTAGE DISTRIBUTION)
UTAH AND U.S., 1975

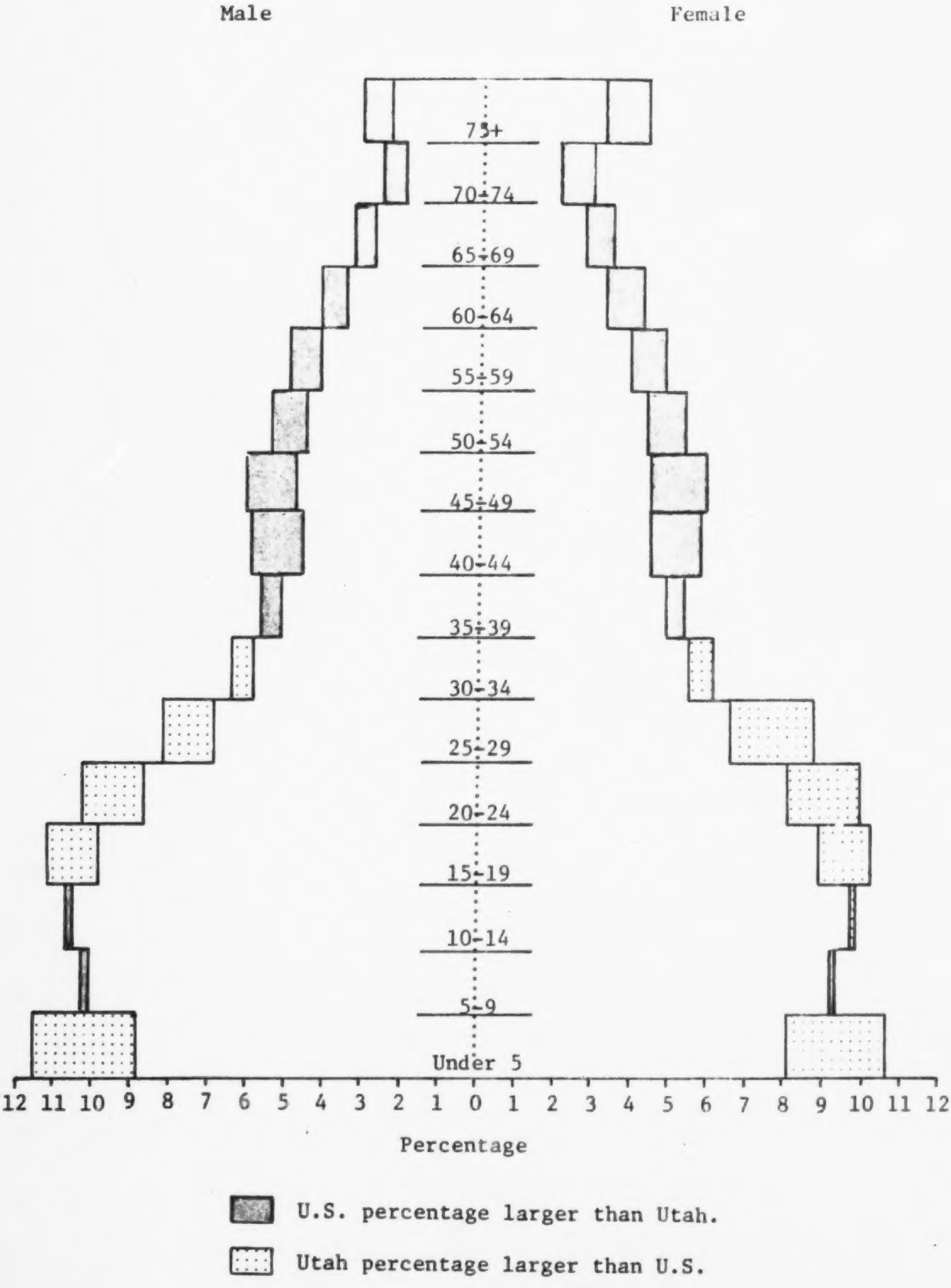

FIGURE 3. BIRTH RATE, DEATH RATE, AND RATE OF NATURAL INCREASE: U.S. AND UTAH, 1955-1979

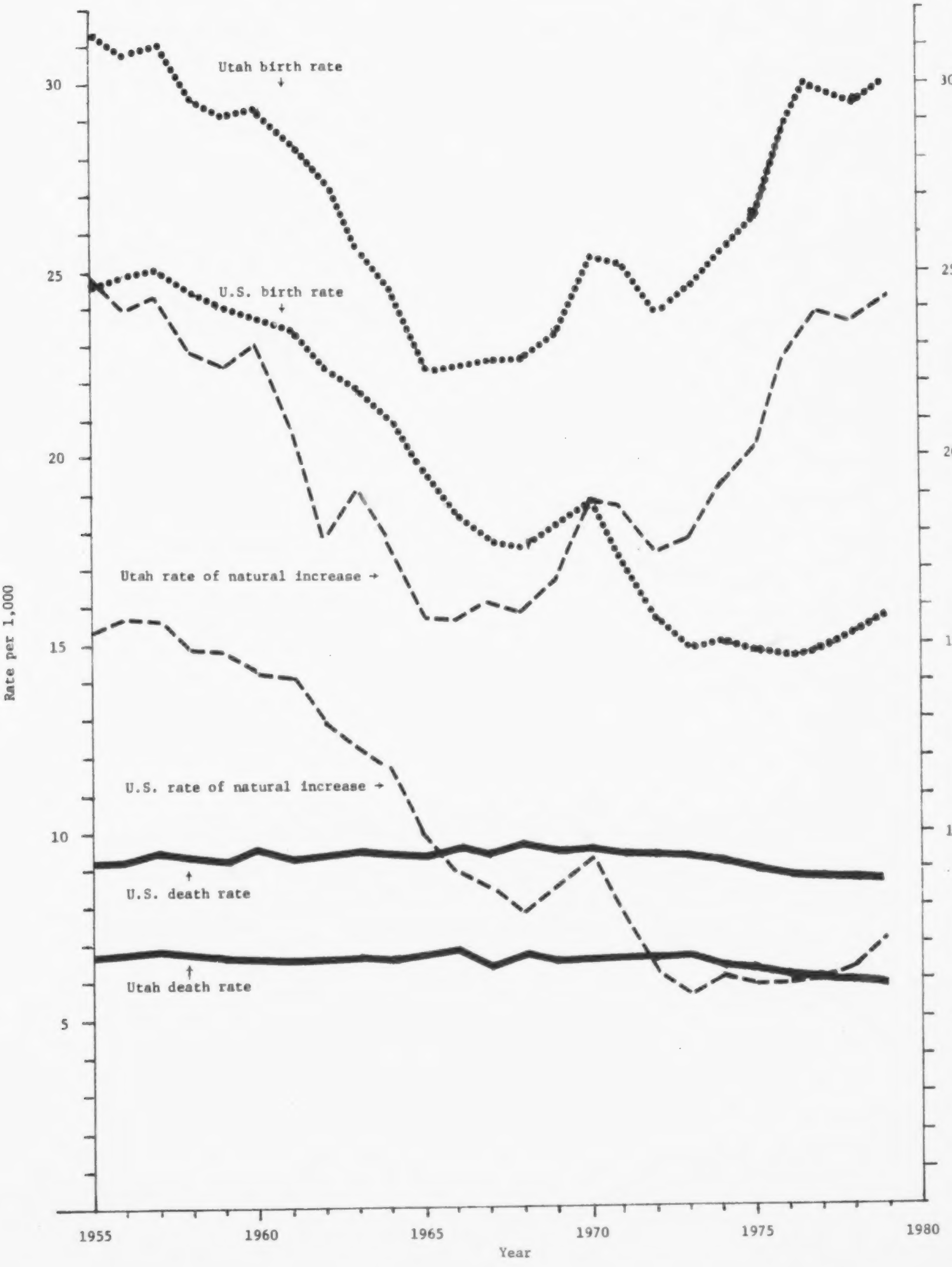

Table 4 compares the leading causes of death for Utah and the United States. Despite the differences in the ages of the two populations, the five leading causes of death in Utah were the same as the United States--diseases of the heart, malignant neoplasms, cerebrovascular disease, accidents, and influenza and pneumonia. Although the mortality rates per 100,000 population for four of these five causes of death were considerably lower in Utah, the percentage contribution for each to the total number of deaths was similar. Two differences are noted. One occurred in the second leading cause, cancer. Nationally, over 21 percent of the deaths in 1979 were due to cancer; while in Utah, over 16 percent of the total deaths were due to cancer. The second difference occurred in deaths from accidents, where nationally 5.5 percent died of injuries suffered in accidents; in Utah 7.9 percent died of accidental injury.

The county population estimates used in this publication were prepared by the Utah Population Work Committee. The age and sex population estimates were prepared by the staff of the Bureau of Health Statistics, Utah State Department of Health. The estimates for 1970 and 1979 are presented in Table 5. These age-sex population estimates will be used for determination of fertility and age-specific death rates presented in this report. Infant and fetal death rates are based on the number of live births per year.

Utah's 29 counties are divided into 7 multiplanning regions. The map in Figure 4 depicts these county groupings. Table 6 is a statistical summary by county of residence and by multicounty region of vital events occurring in Utah during 1979.

More than three-quarters of Utah's population live in the counties along the Wasatch Front (Davis, Salt Lake, Utah, and Weber) within a 50-mile radius of Salt Lake City. Table 7 contains a brief summary of the vital events of residents of the State, the four "urban counties," and the balance of the State, i.e., the rural counties.

In the urban counties, the birth rate and fetal mortality ratio were higher; while the mortality rate was lower than the rural rates. In an unusual occurrence the infant death rate was the same for the urban and rural counties. .The higher mortality rate in rural areas can partially be attributed to the "older" rural population.

TABLE 4

LEADING CAUSES OF DEATH: UNITED STATES AND UTAH, 1979

United States, 1979*				Utah, 1979			
Rank Cause	ICDA Code	Rate per 100,000 Population	Percentage of Deaths	Rank Cause	Number	Rate per 100,000 Population	Percentage of Deaths
Total		866.2	100.0	Total	7,871	575.8	100.0
1. Diseases of the heart	390-398,402 404, 429	331.3	38.3	1. Diseases of the heart	2,800	204.8	35.6
2. Malignant neoplasms	140-208	183.5	21.2	2. Malignant neoplasms	1,314	96.1	16.7
3. Cerebrovascular disease	430-438	76.9	8.9	3. Cerebrovascular disease	628	45.9	8.0
4. Accidents	E800-E949	47.9	5.5	4. Accidents	622	45.5	7.9
5. Chronic obstructive pulmonary diseases and allied conditions	490-496	22.7	2.6	5. Chronic obstructive pulmonary diseases and allied conditions	251	18.4	3.2
6. Influenza and pneumonia	480-487	20.0	2.3	6. Influenza and pneumonia	232	17.0	2.9
7. Diabetes mellitus	250	15.0	1.7	7. Certain cond. orig. in perinatal period	192	14.0	2.4
8. Cirrhosis of the liver	571	13.6	1.6	8. Suicide	179	13.1	2.3
9. Arteriosclerosis	440	13.0	1.5	9. Diabetes mellitus	176	12.9	2.2
10. Suicide	E950-E959	12.6	1.5	10. Congenital anomalies	135	9.9	1.7
11. Homicide	E960-E978	10.5	1.2	11. Sudden de[illegible]	87	6.0	1.0
12. Certain conditions originating in the perinatal period	760-779	10.4	1.2	12. Arterio[illegible]sis	81	5.9	1.0
Residual			10.6	Residual	1,179		15.0

*Monthly Vital Statistics Report, Annual Summary U.S. 1979, Vol. 28, No. 13, November 13, 1980, Hyattsville, Maryland, U.S. Dept. Health, Education, and Welfare, Public Health Service, Health Resources Administration, National Center for Health Statistics.

TABLE 5

ESTIMATED POPULATION BY AGE AND SEX: UTAH, 1970, 1979

Age and Sex	1970 Census	1979
Total	1,059,273	1,367,000
Male	523,265	675,277
Female	536,008	691,723
Under 5	111,798	144,276
Male	57,300	73,946
Female	54,498	70,339
Under 1	24,672	41,078
Male	12,722	21,113
Female	11,950	19,965
1-4	87,126	103,198
Male	44,576	52,833
Female	42,548	50,365
5-14	240,751	310,691
Male	122,592	158,205
Female	118,159	152,486
15-24	214,466	276,770
Male	104,400	134,729
Female	110,066	142,041
25-34	129,961	167,715
Male	64,618	83,390
Female	65,343	84,325
35-44	107,548	138,791
Male	53,257	68,728
Female	54,291	70,063
45-54	100,983	130,319
Male	49,796	64,262
Female	51,187	66,057
55-64	76,205	98,343
Male	37,305	48,142
Female	38,900	50,201
65-74	48,175	62,170
Male	21,923	28,291
Female	26,252	33,879
75-84	23,389	30,183
Male	9,722	12,546
Female	13,667	17,637
85+	5,997	7,739
Male	2,352	3,035
Female	3,645	4,704

FIGURE 4

UTAH MULTICOUNTY ASSOCIATIONS OF GOVERNMENT

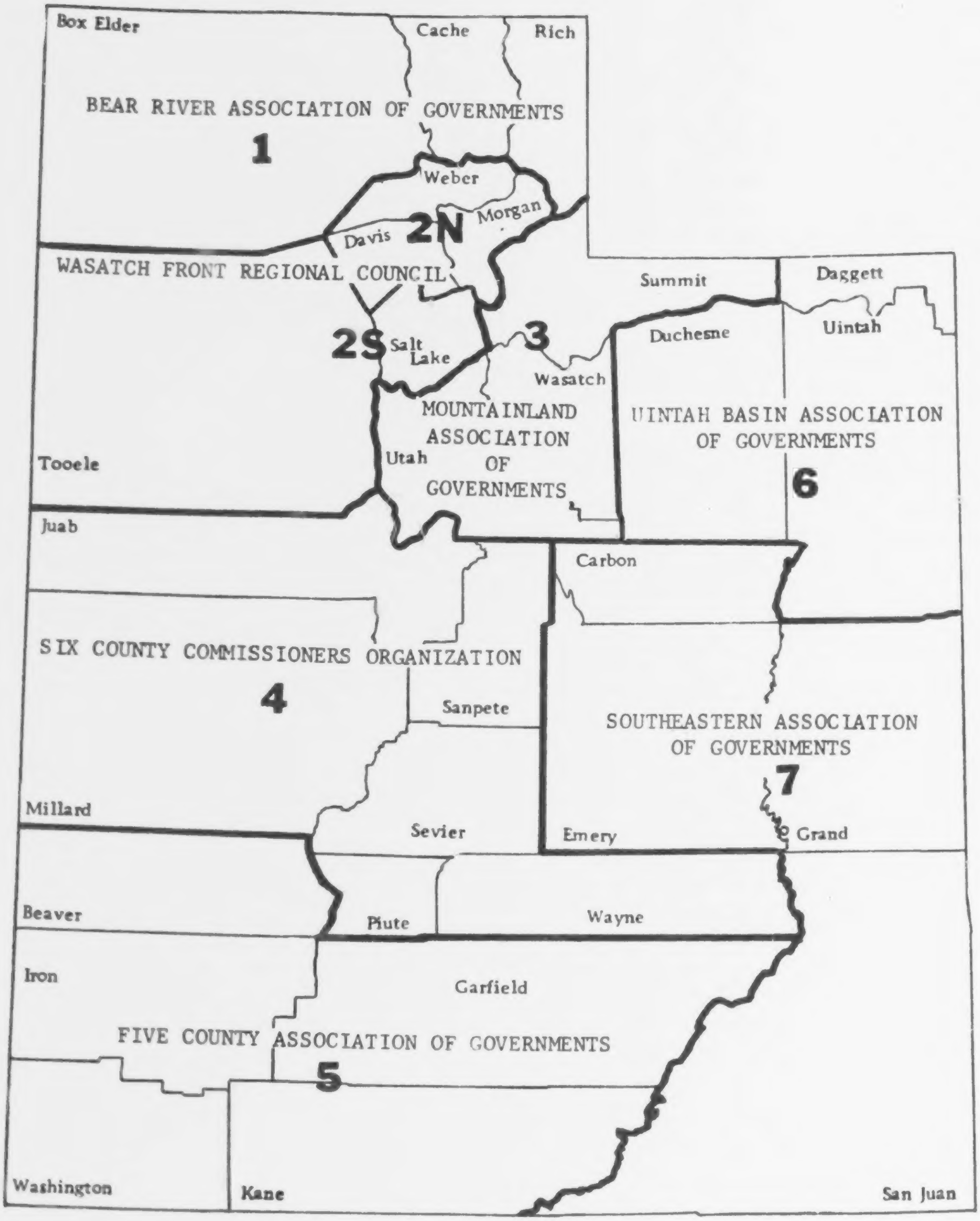
Box Elder
Cache
Rich
BEAR RIVER ASSOCIATION OF GOVERNMENTS
1
Weber
Morgan
Davis
2N
WASATCH FRONT REGIONAL COUNCIL
Summit
Daggett
2S
Salt Lake
3
Duchesne
Uintah
Wasatch
MOUNTAINLAND ASSOCIATION OF GOVERNMENTS
Utah
UINTAH BASIN ASSOCIATION OF GOVERNMENTS
6
Tooele
Juab
Carbon
SIX COUNTY COMMISSIONERS ORGANIZATION
4
Sanpete
SOUTHEASTERN ASSOCIATION OF GOVERNMENTS
7
Millard
Sevier
Emery
Grand
Beaver
Piute
Wayne
Iron
Garfield
FIVE COUNTY ASSOCIATION OF GOVERNMENTS
5
Washington
Kane
San Juan

TABLE 6

STATISTICAL SUMMARY (ESTIMATED MIDYEAR POPULATION, LIVE BIRTHS, DEATHS, MATERNAL DEATHS, INFANT DEATHS, FETAL DEATHS) BY COUNTY: UTAH 1979

District and County	Estimated Midyear Population	Live Births		Deaths		Maternal Deaths	Infant Deaths		Fetal Deaths	
		Number	Rate[1]	Number	Rate[1]		Number	Rate[2]	Number	Rate[2]
Total	1,367,000	41,078	30.0	7,871	5.8	6	438	10.7	317	7.7
District 1	89,900	2,611	29.0	495	5.5	. .	26	10.0	19	7.3
Box Elder	33,000	877	26.6	191	5.8	. .	8	9.1	7	. .
Cache	55,000	1.670	30.4	288	5.2	2	17	10.2	12	7.2
Rich	1,900	64	33.7	16	8.4	. .	1	. .	. .	. .
District 2N	286,300	7,646	26.7	1,491	5.2	. .	84	10.9	62	8.1
Davis	137,000	3,946	28.8	505	3.7	2	40	10.1	26	6.6
Morgan	5,300	113	21.3	33	6.2	. .	1	. .	. .	. .
Weber	144,000	3,587	24.9	953	6.6	. .	43	12.0	36	10.0
District 2S	587,800	17,145	29.2	3,619	6.2	. .	173	10.1	136	7.9
Salt Lake	563,000	16,488	29.3	3,466	6.2	1	162	9.8	131	7.9
Tooele	24,800	657	26.5	153	6.2	. .	11	16.7	5	. .
District 3	215,500	8,295	38.5	1,009	4.7	. .	100	12.1	61	7.4
Summit	8,700	218	25.1	53	6.1	. .	1	. .	. .	. .
Utah	199,000	7,861	39.5	895	4.5	1	95	12.1	60	7.6
Wasatch	7,800	216	27.7	61	7.8	. .	4	. .	1	. .
District 4	47,900	1,259	26.3	376	7.8	. .	12	9.5	8	6.4
Juab	5,700	162	28.4	43	7.5	. .	. .	. .	1	. .
Millard	9,000	233	25.9	70	7.8	. .	2	. .	. .	. .
Piute	1,500	22	14.7	12	8.0	. .	. .	. .	. .	. .
Sanpete	14,800	372	25.1	123	8.3	. .	3	. .	3	. .
Sevier	15,000	424	28.3	115	7.7	. .	7	. .	3	. .
Wayne	1,900	46	24.2	13	6.8	. .	. .	. .	1	. .
District 5	51,900	1,554	29.9	392	7.6	. .	18	11.6	11	7.1
Beaver	4,400	131	29.8	52	11.8	. .	1	. .	1	. .
Garfield	3,800	87	22.9	28	7.4	. .	1	. .	2	. .
Iron	17,200	493	28.7	104	6.0	. .	9	18.3	6	. .
Kane	3,900	97	24.9	24	6.2	. .	. .	. .	. .	. .
Washington	22,600	746	33.0	184	8.1	. .	7	. .	2	. .
District 6	32,000	1,038	32.4	181	5.7	. .	12	11.6	8	7.7
Daggett	800	17	21.3	2	. .	. .	. .	. .	. .	. .
Duchesne	11,900	402	33.8	74	6.2	. .	4	. .	5	. .
Uintah	19,300	619	32.1	105	5.4	. .	8	12.9	3	. .
District 7	55,700	1,530	27.5	308	5.5	. .	13	8.5	12	7.8
Carbon	22,000	585	26.6	154	7.0	. .	2	. .	6	. .
Emery	10,800	385	35.6	59	5.5	. .	4	. .	3	. .
Grand	7,900	198	25.1	48	6.1	. .	3	. .	2	. .
San Juan	15,000	362	24.1	47	3.1	. .	4	. .	1	. .

[1] Per 1,000 population.

[2] Per 1,000 live births; rates not computed where number of occurrences is 7 or less.

TABLE 7

POPULATION, BIRTHS, DEATHS, AND RATES BY RURAL-URBAN COUNTY OF RESIDENCE: UTAH, 1979

	State	Urban Counties[a]	Rural Counties
Population estimates, 1979	1,367,000	1,043,000	324,000
Births	41,078	31,882	9,196
Birth rate[b]	30.0	30.6	28.4
Deaths	7,871	5,819	2,052
Death rate[b]	5.8	5.6	6.3
Infant deaths	438	340	98
Infant death rate[b]	10.7	10.7	10.7
Fetal deaths	317	253	64
Fetal death rate[b]	7.7	7.9	7.0

[a] Urban counties are Davis, Salt Lake, Utah, and Weber.

[b] Birth and death rates per 1,000 population; infant death rate and fetal death ratio per 1,000 live births.

Another approach to the rural-urban analysis is to use the Bureau of Census' classifications of Standard Metropolitan Statistical Area (S.M.S.A.), urban and rural areas.

There are two S.M.S.A.s in Utah. One, the Salt Lake-Ogden area, consists of Davis, Salt Lake, Tooele, and Weber Counties. The 1979 population of this S.M.S.A. was 868,800. The second S.M.S.A. is entirely within Utah County, and its population was 199,000 in 1979.

The "other urban" population is defined as ". . . all persons living in urbanized areas."[1] and ". . . incorporated places of 2,500 inhabitants or more. . . . small parcels of land normally less than one square mile in area having a population density of 1,000 inhabitants or more per square mile."[1] For purposes of this analysis the folloiwng cities make up the "other urban" category: Blanding, Brigham City, Cedar City, Heber, Hyrum, Logan, Moab, Nephi, Price, Richfield, Roosevelt, St. George, Smithfield, Tremonton, and Vernal.

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[1] *General Social and Economic Characteristics*, Utah, U.S. Dept. of Commerce, Bureau of Census, 1970, pages App-1, and App-3, Appendix A.

The "rural" population is defined as "all persons residing in the 24 counties except Davis, Salt Lake, Tooele, Utah, and Weber; and excluding the populations for the 15 cities listed in the preceding paragraph, which are defined as 'other urban.'"

Table 8 shows a comparison of vital events for the two S.M.S.A.s combined, the "other urban," and "rural" areas. This summary includes some rural areas within the two S.M.S.A.s; while some small urban areas, e.g., Delta, Park City, Manti, are included in the rural grouping. This tabulation is more sensitive than the one in Table 7. The birth rate for the rural area was 26.8 and was the lowest of all. The mortality and infant mortality rate was the lowest of the three geographic areas. The fetal mortality ratio for the rural area, 6.6, was the lowest of the three, also.

TABLE 8

POPULATION, BIRTHS, DEATHS, AND RATES BY PLACE OF RESIDENCE: UTAH, 1979

	State[1] Total	S.M.S.A. Total	Other[2] Urban	Rural
Population	1,367,000	1,067,800	119,220	179,980
Births	41,078	32,539	3,721	4,818
Birth rate	30.0	30.5	31.2	26.8
Deaths	7,871	5,972	751	1,148
Death rate	5.8	5.6	6.3	6.4
Infant deaths	438	351	42	45
Infant death rate	10.7	10.8	11.3	9.3
Fetal deaths	317	258	27	32
Fetal death ratio	7.7	7.9	7.3	6.6

[1] Population estimated by the Utah Population Work Committee.

[2] Population extimates by Bureau of Health Statistics from unpublished data furnished by the Bureau of Census.

Note: Birth and death rate per 1,000 population; infant and fetal death rate per 1,000 live births.

BIRTHS

BIRTH SUMMARY

The 41,078 reported live births to Utah residents in 1979 represented an increase of 2,267 or 5.8 percent over the 38,811 reported in 1978. The 1979 birthrate of 30.0 per 1,000 population is a 1.7 percent increase from the 1978 rate of 29.5.

The Utah general fertility rate in 1979 was 129.9 live births per 1,000 women ages 15-44. This rate was 91 percent higher than the national general fertility rate of 68.0 for the same year. Nationally, this rate continued to decline from a peak of 122.9 in 1957 to 68.0 in 1979. The Utah rate, which showed a steady decline between 1958 and 1968, from 147.9 to 106.6, appears to have risen erratically for the next 7 years, and in 1976 made an abrupt increase which continued in 1977, but has remained about the same for 1979. The general fertility rate in Utah has been consistently higher than the national rate (Table 9).

The highest birthrate in the State, 39.5, was in Utah County; the highest birthrate for counties with more than 5,000 population, 39.5, also was Utah County; the lowest birthrate in the same category, 21.3, was in Morgan County (Table 6).

The data in Table 10 give the number of births occurring to Utah residents by county of residence and by county of occurrence. The 6 counties without hospitals reported only 6 births occurring in those counties, all in Emery County; even though there were 647 births to residents of those counties during 1979.

Most of the infants born in Utah were delivered in a hospital (98.7 percent) and by a physician (97.2 percent).

Table 11 summarizes the low-birth-weight (less than 5 pounds 8 ounces) infants in 1979 by race of mother. "Blacks" had the highest percentage (11.3 percent) of low-birth-weight infants in the state, while "other nonwhites' experienced the lowest percentage (5.3 percent). In the

TABLE 9

FEMALES AGES 15-44, BIRTHS, AND FERTILITY RATES: UTAH AND U.S., 1952-1979

Year	Utah Females Ages 15-44	Resident Live Births	Fertility Rate[1]	
			Utah	U.S.
1952	157,080	24,236	154.3	[2]113.9
1953	159,340	24,147	151.5	[2]115.2
1954	161,910	24,905	153.8	[2]118.1
1955	164,170	25,103	152.9	[2]118.5
1956	166,600	25,449	152.8	[2]121.2
1957	168,880	26,064	154.3	[2]122.9
1958	171,640	25,384	147.9	[2]120.2
1959	174,620	25,645	146.9	[2]120.2
1960	179,275	26,272	146.5	118.0
1961	182,240	26,590	145.9	117.2
1962	186,692	26,213	140.4	112.2
1963	191,704	24,952	130.2	108.5
1964	196,541	23,844	121.3	105.0
1965	201,509	22,261	110.5	96.6
1966	206,376	22,601	109.5	91.3
1967	211,815	22,948	108.3	87.6
1968	217,662	23,193	106.6	85.7
1969	223,579	24,232	108.4	86.5
1970	229,839	26,969	117.3	87.9
1971	236,386	27,552	116.6	81.8
1972	243,135	26,911	110.7	73.4
1973	249,869	27,978	112.0	69.2
1974	255,883	29,946	117.0	68.4
1975	261,024	30,667	117.5	66.7
1976	279,050	35,310	126.5	65.8
1977	293,380	37,956	129.4	67.4
1978	304,728	38,811	127.4	66.4
1979	316,297	41,078	129.9	68.0

[1] Per 1,000 women 15-44 years of age.

[2] Adjusted for under-registration.

TABLE 10

BIRTHS THAT OCCURRED IN UTAH AND TO UTAH RESIDENTS OUTSIDE UTAH, 1979

District and County	Births by County of Mother's Residence			Births by County of Occurrence		
	Total	Occurring In Utah	Occurring Outside of Utah	Total	Mother a Utah Resident	Mother Not a Utah Resident
Total	41,078	40,814	264	42,104	40,814	1,290
District 1	2,611	2,579	32	2,735	2,465	270
Box Elder	877	873	4	731	712	19
Cache	1,670	1,657	13	2,004	1,753	251
Rich	64	49	15	. .	. .	. .
District 2N	7,646	7,630	16	7,747	7,554	193
Davis	3,946	3,937	9	2,814	2,777	37
Morgan	113	113	. .	. .	. .	. .
Weber	3,587	3,580	7	4,933	4,777	156
District 2S	17,145	17,098	47	17,960	17,721	239
Salt Lake	16,488	16,456	32	17,755	17,517	238
Tooele	657	642	15	205	204	1
District 3	8,295	8,269	26	8,365	8,267	98
Summit	218	218	. .	27	24	3
Utah	7,861	7,835	26	8,083	7,995	88
Wasatch	216	216	. .	255	248	7
District 4	1,259	1,251	8	1,087	1,073	14
Juab	162	162	. .	50	50	. .
Millard	233	232	1	205	202	3
Piute	22	22	. .	. .	. .	. .
Sanpete	372	371	1	396	390	6
Sevier	424	422	2	436	431	5
Wayne	46	42	4	. .	. .	. .
District 5	1,554	1,533	21	1,928	1,557	371
Beaver	131	130	1	144	141	3
Garfield	87	87	. .	84	83	1
Iron	493	490	3	542	506	36
Kane	97	89	8	96	72	24
Washington	746	737	9	1,062	755	307
District 6	1,038	1,023	15	914	893	21
Daggett	17	13	4	. .	. .	. .
Duchesne	402	402	. .	371	367	4
Uintah	619	608	11	543	526	17
District 7	1,530	1,431	99	1,368	1,284	84
Carbon	585	581	4	794	788	6
Emery	385	380	5	6	6	. .
Grand	198	184	14	233	223	10
San Juan	362	286	76	335	267	68

United States during 1978 (the latest figures available) the percentage of black low-birth-weight infants was 12.9.[1]

TABLE 11

PERCENTAGE LOW-BIRTH-WEIGHT INFANTS OF TOTAL BIRTHS BY RACE AND SEX: UTAH, 1979

Race	Total	Male	Female
Total	5.6	5.3	5.9
White	5.5	5.2	5.9
Black	11.3	12.7	10.0
Indian	6.5	7.3	5.8
Other nonwhite	5.3	5.3	5.4

For each group except "black" and "Indian," a smaller percentage of males were low-birth-weight than females. For the State, 5.3 percent of all male and 5.9 percent of all female infants born in 1979 weighed 2,500 grams or less at birth.

Thirty-seven percent of births were to women ages 20-24, and over; 29 percent occurred to females ages 25-29 (Reference Table A-10).

Table 12 shows the mean age of all mothers at first live birth as 21.8 with the group, "other nonwhite" having the oldest mean age (23.9) for first births. "Other nonwhites" had the oldest mean ages until four or more live births. Indians had the youngest mean ages until five or more live births. The mean age of all mothers for all births was 25.5 years.

TABLE 12

MEAN AGE OF MOTHER BY RACE AND NUMBER OF THIS BIRTH UTAH, 1979

Race	Mean Age of Mother by Number of This Birth					
	1	2	3	4	5	6+
All races	21.8	24.1	26.6	28.9	31.2	34.2
White	21.8	24.1	26.6	28.9	31.2	34.4
Black	21.2	23.5	25.8	28.0	28.2	32.4
Indian	20.7	23.3	25.3	27.2	30.5	33.0
Other nonwhite	23.9	25.7	27.8	28.8	31.4	34.6

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[1] Monthly Vital Statistics Report, Advance Report Final Natality Statistics, 1978, HRA (76-1120), Vol. 28, No. 1, (National Center for Health Statistics, Hyattsville, Ms. 20852) April 28, 1980.

Birth order by district varied considerably as indicated in Table 13. The percentage of first- and second-order births nationally (73.9 percent in 1978) exceeded the percentage of these births for each of the multi-county districts in 1979. The state-wide total was 57.8 percent. Comparing Utah in 1979 with the United States in 1978, the percentage of births for each birth order, three and above, was greater in Utah and in each district.

TABLE 13

PERCENTAGE OF BIRTHS BY REPORTED BIRTH ORDER AND DISTRICT
UTAH, 1979; AND THE UNITED STATES, 1978

District of Mother's Residence	Total	Percentage of Births This Birth Order					
		1st	2nd	3rd	4th	5th	6th+
Total	100.0	32.0	25.8	17.7	11.6	6.3	6.6
District 1	100.0	31.0	24.5	18.8	12.1	6.1	7.5
District 2N	100.0	30.9	27.3	17.9	11.3	6.3	6.2
District 2S	100.0	32.9	26.9	17.9	11.5	5.6	5.1
District 3	100.0	34.9	23.5	15.9	10.6	6.8	8.3
District 4	100.0	22.6	21.2	21.9	16.4	8.1	9.8
District 5	100.0	27.2	21.6	18.2	13.7	8.7	10.7
District 6	100.0	26.9	25.7	17.0	13.4	7.6	9.4
District 7	100.0	29.9	27.1	19.3	10.5	6.3	6.9
United States[1] [2]	100.0	42.0	31.9	14.9	5.7	2.3	2.2

[1] Ibid. [2] 0.9 percent not stated.

The greatest variation between districts was demonstrated in first-order births. The percentages varied from 22.6 in District 4 to 34.9 in District 3. District 5 recorded the highest percentage of sixth- and higher-order births (10.7 percent); District 2S, the lowest (about 5 percent). The large percentage of sixth- or higher-order births in District 5 may be influenced by a community of traditional Latter Day Saint Church members who are encouraged to have large families. For the State, 25 percent of the births were second-order, and over 6 percent were sixth-order and higher.

Table 14 shows how the "percentage this birth order" differed for each race. Blacks had the highest percentage of first-order births and Indians had the highest percentage of high-order (6+) births.

In only two districts, Uintah Basin and Southeastern, did white infants account for less than 95 percent of the births. In those two districts Indians accounted for 7.0 and 10.7 percent, respectively. The district with the largest percentage of black births (1.2 percent) was Wasatch Front North. The districts with the largest proportion of "other nonwhite" births (2.2 percent) was Wasatch Front South. The total number of nonwhite births was only 1,671, therefore, caution should be used in interpreting all Utah birth statistics for other than the white population.

TABLE 14

"PERCENTAGE THIS BIRTH ORDER" BY RACE FOR RESIDENTS
UTAH, 1979

Race of Mother	Total	Percentage This Reported Birth Order					
		First	Second	Third	Fourth	Fifth	Sixth and Higher
Total	100.0	32.0	25.8	17.7	11.6	6.3	6.6
White	100.0	31.8	25.6	17.9	11.6	6.3	6.7
Black	100.0	43.5	31.9	13.4	6.9	2.2	2.2
Indian	100.0	35.4	26.2	14.5	10.3	5.1	8.5
Other nonwhite	100.0	36.2	29.9	13.5	9.9	5.7	4.9

In Utah, low-birth-weight infants (2,500 grams or less) comprised 5.6 percent of the live births to residents. Nationally, 7.1 percent of all live births were of low birth weight in 1978.[1]

Table 15 gives the percentage of low-birth-weight infants for each of the multicounty districts for each year since 1970. The state-wide percentage of low-birth-weight infants remained the same as in 1978 but there was some variation between districts.

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[1] Advanced Report Final Natality Statistics, 1977 from Monthly Vital Statistics Report, (HRA) 76 1120, Vol. 28, No. 1 (National Center for Health Statistics, Hyattsville, Md. 20852), April 28, 1980.

TABLE 15

PERCENTAGE OF LOW-BIRTH-WEIGHT INFANTS BY DISTRICT AND YEAR: UTAH, 1970-1979

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
State	6.5	6.2	6.0	5.5	5.3	5.3	5.4	5.2	5.6	5.6
Bear River (1)	4.7	5.7	6.1	4.6	5.6	4.9	5.8	4.5	6.3	4.9
Wasatch Front No. (2N)	6.9	6.3	6.6	6.4	5.7	5.4	5.1	5.5	5.8	5.7
Wasatch Front So. (2S)	7.1	6.7	6.2	6.1	5.7	5.7	6.0	5.5	5.8	6.1
Mountainland (3)	5.5	5.6	4.7	4.1	4.3	4.6	4.6	4.3	4.9	4.8
Six County (4)	6.7	5.6	4.8	5.3	4.5	5.6	4.7	5.2	5.6	5.3
Five County (5)	5.3	5.4	5.5	4.8	4.2	5.0	3.6	4.0	5.1	6.0
Uintah Basin (6)	6.1	3.6	6.6	5.1	3.6	4.2	6.2	6.0	6.0	5.6
Southeastern (7)	7.0	5.3	6.9	5.1	7.6	6.1	5.5	7.7	6.9	5.2

Maternal age is an important variable contributing to infant birth weight. Eight and one-half percent of the infants born to mothers 19 years of age or younger in 1979 were of low birth weight (Table 16), while mothers of all other age groups had less than 6 percent low-birth-weight infants. The percentages of low-birth-weight infants born to mothers in the age groups, 25-29 and 30-34, were less than any other age groups.

TABLE 16

LIVE BIRTHS BY BIRTH WEIGHT AND MOTHER'S AGE: UTAH, 1979

Age of Mother	Total Live Births		Live Births by Birth Weight			
			Low Birth Weight		More than 2,500 Grams	
	Number	Percent	Number	Percent	Number	Percent
Total[1]	41,011	100.0	2,246	5.4	38,765	94.5
19 years or younger	4,560	11.1	387	8.4	4,173	91.5
20-24 years	15,124	36.8	894	5.9	14,230	94.0
25-29 years	12,387	30.2	550	4.4	11,837	95.5
30-34 years	6,320	15.4	285	4.5	6,035	95.4
35 years or older	2,620	6.3	130	4.9	2,490	95.0

[1] Does not include "not stated" ages or birth weights.

Another factor which contributes to low-birth-weight outcomes is the number of weeks gestation. In 1979 there were much lower percentages of low-birth-weight infants among those born at 38 or more weeks gestation than those born before 38 weeks gestation (Table 17).

TABLE 17

LOW-BIRTH-WEIGHT INFANTS BY WEEKS GESTATION: UTAH, 1979

	Total	Number and Percentage of Infants by Weeks Gestation								
		Under 20	20-27	28-35	36-37	38-39	40-41	42-43	44+	Not Stated
Low-birth-weight infants[1]	2,287	1	87	666	388	478	292	114	66	195
Percentage of total births	5.6	100.0	94.6	59.8	18.5	5.0	1.7	1.8	2.7	9.6

[1] Birth weights not stated are not included.

Three measures of the adequacy of prenatal care a mother receives are "mean number of prenatal visits," "percentage of mothers receiving less than five prenatal visits," and "percentage of mothers who began their prenatal care after the first trimester." Table 18 shows these variables by age of mother, race of child, and district of mother's residence. For each of these the "not stated" total has been deleted before computing the mean number or percentage. The mean number of prenatal visits in Utah was 10.1 compared with 11.0 prenatal visits for the 47 states reporting nationally (including Utah).

Conditions noted at birth can give an indication of the well-being of the newborn. Unfavorable conditions, such as complications of pregnancy or delivery, birth injury, and congenital malformations, decrease the probability of survival. Tables 19, 20, and 21 compare the unfavorable conditions noted at birth with age of mother, weight at birth, and when prenatal care began. These factors, in addition to the weeks gestation previously discussed, appear to have the most impact on the number of unfavorable conditions noted at birth.

TABLE 18

SUMMARY OF PRENATAL CARE REPORTED RECEIVED BY AGE OF MOTHER, RACE OF CHILD, AND DISTRICT OF MOTHER'S RESIDENCE: UTAH, 1979

Variable	Mean Number of Prenatal Visits	Percentage of Mothers Receiving Under 5 Prenatal Visits	Percentage of Mothers Who Began Care After First Trimester
Age of mother			
Total	10.1	6.8	17.5
Under 15	8.3	22.2	42.3
15-19	9.2	12.6	30.8
20-24	9.5	6.1	15.8
25-29	10.2	5.7	14.8
30-34	10.3	6.4	15.9
35-39	10.2	6.7	19.3
40-44	10.0	9.6	25.7
45+	9.6	13.0	45.8
Race of child			
Total	10.1	6.8	17.5
White	10.2	6.3	16.8
Black	9.6	14.9	32.9
Indian	8.0	27.3	42.2
Other nonwhite	9.1	15.4	33.4
District of mother's residence			
State	10.1	6.8	17.5
Bear River (1)	10.5	4.3	16.2
Wasatch Front North (2N)	10.1	6.8	14.6
Wasatch Front South (2S)	10.1	7.3	18.5
Mountainland (3)	10.5	3.7	13.2
Six County (4)	10.9	5.6	19.3
Five County (5)	9.8	9.0	23.9
Uintah Basin (6)	9.8	11.9	30.1
Southeastern (7)	8.0	18.1	31.1

Table 19 gives age of mother and the percentage of births in which at least one unfavorable condition was noted at birth. Mothers, age 15 and under have the largest percentage of unfavorable outcomes at birth. The lowest percentage occurs in the 25-29 age group.

TABLE 19

UNFAVORABLE CONDITIONS AT BIRTH BY AGE OF MOTHER: UTAH, 1979

At Least One Unfavorable Condition	Age of Mother							
	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Number	7	995	2,647	2,141	1,206	471	94	4
Percentage of total live births	25.0	21.9	17.5	17.3	19.1	21.2	24.5	16.0

Table 20 provides the number of unfavorable conditions noted by the birth weight of the newborn. Those infants whose birth weight is 2,500 grams or less experience unfavorable conditions at least twice as often as those infants who weigh over 2,500 grams.

TABLE 20

UNFAVORABLE CONDITIONS AT BIRTH BY BIRTH WEIGHT: UTAH, 1979

At Least One Unfavorable Condition	Birth Weight in Grams								
	1000 or Less	1001-1500	1501-2000	2001-2500	2501-3000	3001-3500	3501-4000	4001-4500	Over 4500
Number	118	143	330	782	1,513	2,435	1,578	505	127
Percentage of total live births	92.9	89.9	79.1	49.5	23.0	15.3	13.0	14.6	20.6

Table 21 shows the number of unfavorable conditions noted by the trimester in which prenatal care began.

TABLE 21

UNFAVORABLE CONDITIONS AT BIRTH BY TRIMESTER CARE BEGAN: UTAH, 1979

At Least One Unfavorable Condition	Trimester Care Began				
	No Care	First	Second	Third	Not Stated
Number	44	6,062	1,063	151	247
Percentage of total live births	26.0	18.4	17.9	17.3	21.9

The infants whose mothers have no prenatal care experience a higher percentage of unfavorable conditions at birth than those whose mothers had at least some care.

Nationally, the relationship between education of parents and the number of children they have is clear--the higher the education the fewer the children. The mean parity for mothers over age 19 compared to the mothers' education follows: less than 4 years of high school, 3.05; 4 years of high school, 2.12; and 1 or more years of college, 1.88 children.[1] Table 22 gives the percentage of "this birth order" by education of mothers over age 19. Only mothers over 19 were selected in order to provide all mothers the opportunity to have acquired more than 12 years of education. The Utah experience is similar to the United States in that those mothers with less than high school education have the highest percentage of fourth-or-higher order births. The mothers with high school and more-than-high school educations have about the same percentages of fourth-and-higher order births. If the average number of children per mother in Utah is calculated for each level of education, less-than-high school educated have 3.11 children per mother, high-school educated, and more-than-high school educated both have 2.77 children. These ratios for Utah mothers show the same pattern as the United States although the ratios for more-educated mothers are somewhat higher in Utah.

Less than 8 percent of Utah fathers had not graduated from high school, 28 percent were high school graduates, and 59 percent had completed one or more years of college. Among Utah mothers, 12 percent had not completed high school, 38 percent were high school graduates, and 48 percent completed one or more years of college. A primary reason for the low rate of less-than-high school graduates is nonresponse to father's education for births to unmarried females.

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[1] Calculated by the Bureau of Health Statistics from data in the Vital Statistics of the United States, 1975, Vol. 1: Natality, National Center for Health Statistics, Hyattsville, Md. pages 1-172. Due to data limitations, the mean parities calculated probably understate the actual mean parities.

TABLE 22

"PERCENTAGE THIS BIRTH ORDER" BY EDUCATION OF
MOTHERS OVER AGE 19: UTAH, 1979

Birth Order	Total	Less than High School	High School	More than High School
Total	100.0	100.0	100.0	100.0
First	26.0	13.3	24.2	28.9
Second	26.6	30.1	29.5	24.1
Third	19.7	25.9	20.6	18.3
Fourth	13.0	15.4	12.5	13.0
Fifth and higher	14.7	15.3	13.2	15.7

Nationally in 1978, 47 states reported information about the education of the parents. Sixteen percent of fathers had not completed high school, 34 percent had received high school diplomas, and 34 percent had completed one or more years of post high school education. Among mothers, the respective figures were 26 percent, 42 percent, and 30 percent.[1]

Table 23 summarizes out-of-wedlock births in Utah from 1960 to 1979 by age of mother. There were 2,316 out-of-wedlock births to Utah residents reported in 1979. This was 5.6 percent of all live births to resident females in the State. These out-of-wedlock births show no changes from the 1978 rate. In 1978, of the 39 states reporting nationally, 16.3 percent of the births were out of wedlock.

Over 46 percent of the out-of-wedlock births in Utah were to females 19 years or younger. The mean age of mothers for all out-of-wedlock births in the State was 21.7 years.

Figure 5 summarizes the percentage of out-of-wedlock births to total births by district. The districts above the state percentage (5.6 percent out-of-wedlock births) were 2 North, 2 South, 6, and 7; with 6.3, 7.2, 6.5, and 7.6 percent, respectively.

Figure 6 provides out-of-wedlock births by age of mother. Twenty-five percent (1,079) of all births to females less than 19 years of age were

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[1] Final Natality Statistics from Monthly Vital Statistics Report (PHS) 77-1120, Vol. 28, No. 1 (National Center for Health Statistics, Hyattsville, Md. 20852) April 28, 1980.

TABLE 23

OUT-OF-WEDLOCK BIRTHS BY AGE OF MOTHER: UTAH, 1960-1979

Year	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Unknown
1979	2,316	18	1,061	784	295	116	35	5	1	1
1978	2,160	28	997	732	274	89	30	9	1	. .
1977	1,806	30	880	584	211	73	22	2	1	3
1976	1,493	20	735	479	168	65	21	4	. .	1
1975	1,321	32	642	439	136	48	18	3	. .	3
1974	1,138	16	564	380	114	40	18	3	. .	3
1973	1,216	23	638	381	112	40	15	6	. .	1
1972	1,136	23	574	379	83	42	26	5	2	2
1971	1,058	11	500	382	105	38	19	3	. .	. .
1970	1,215	14	588	441	100	40	20	5	. .	7
1969	993	14	413	407	103	36	12	3	1	4
1968	933	7	394	347	106	36	29	7	2	5
1967	791	11	347	280	86	38	18	7	. .	4
1966	742	4	331	281	70	31	18	6	. .	1
1965	676	3	279	246	86	35	16	8	1	2
1964	585	4	255	207	59	35	14	4	. .	7
1963	465	8	169	165	63	34	15	10	. .	1
1962	474	4	167	163	67	36	20	10	1	6
1961	456	5	178	161	58	31	11	6	. .	6
1960	406	8	157	133	56	21	21	8	. .	2

FIGURE 5. PERCENTAGE OF BIRTHS OUT OF WEDLOCK IN EACH DISTRICT: UTAH, 1979

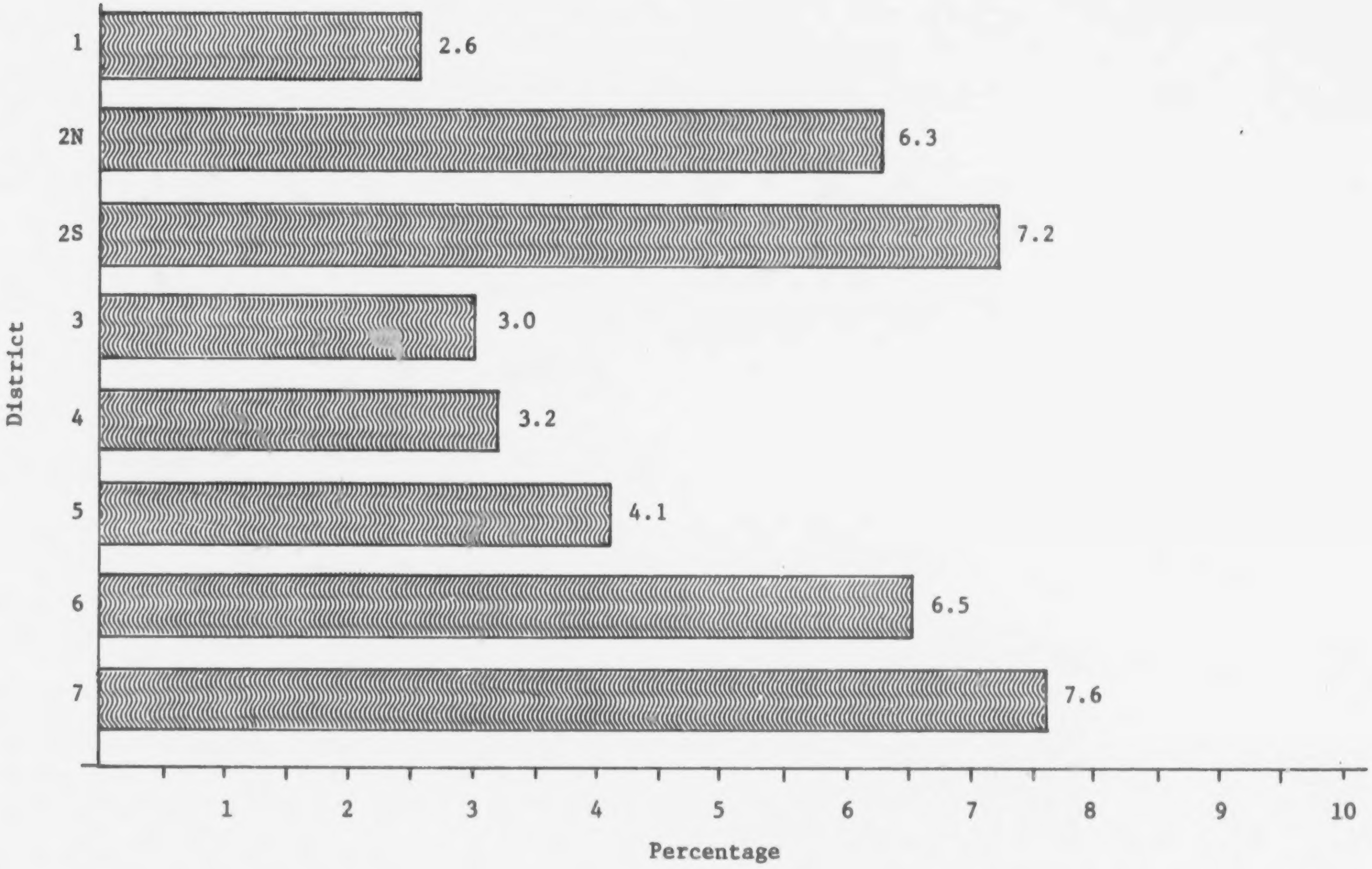
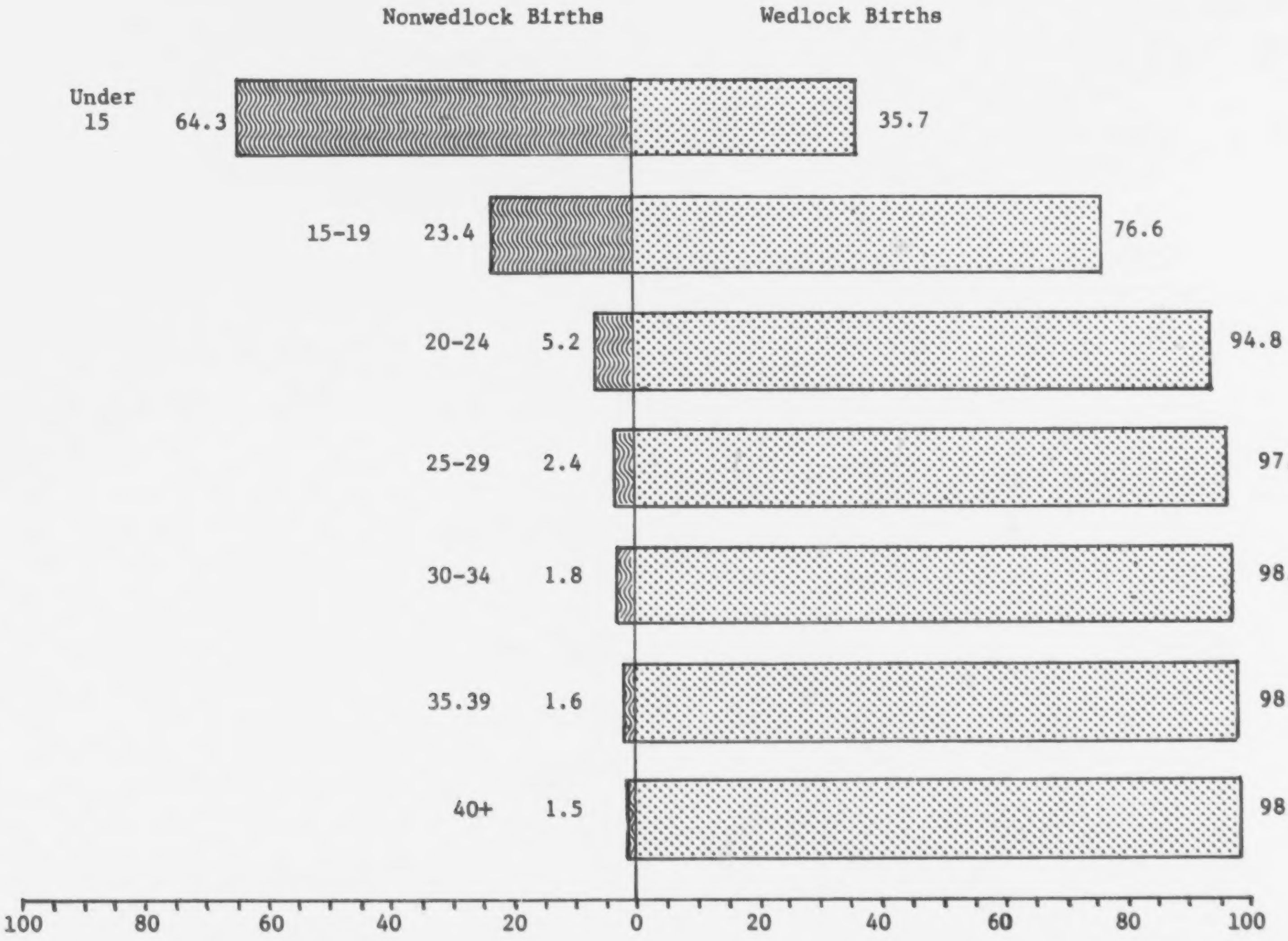


FIGURE 6. WEDLOCK VERSUS NONWEDLOCK BIRTHS BY AGE GROUP OF MOTHER: UTAH, 1979



born out of wedlock. This percentage dropped dramatically for females over 20 years of age; i.e., 5.2 percent for females 20-24, 2.0 percent for females 25-39, and 1 percent for those 40 years and older. The 64.3 percent out-of-wedlock births to females less than 15 years of age was based on a total of 28 of these young women who gave birth in 1979.

APGAR Score

Two new items were added to the birth certificate in 1978. One was "APGAR score." The APGAR score is a summary measure used to evaluate the newborn infant's overall condition at birth. The score is a composite evaluation of the infant's heart rate, respiratory effort, muscle tone, reflex irritability, and color. Each item is scored 0, 1, or 2. The sum of the five items is the overall score. The score can range from 0 to 10, with 10 being optimum. Table A-24 is a tabulation of 5-minute APGAR scores by birth weight of the infant. The very low birth weights (less than 2,000 grams) have the most low APGAR scores. Infants in the 3,001-3,500 grams weight range have the highest percentage of "10" scores in any weight class.

Spanish Origin

The second new item added in 1978 was "parents of Spanish Origin." Table 24 compares births by age of mother, number of prenatal visits, month prenatal care began, and out-of-wedlock births for mothers of Spanish and non-Spanish origin in Utah.

Mothers of Spanish origin have their children at a younger age than non-Spanish mothers--23 percent versus 11 percent were teen-agers. Mothers of Spanish origin have fewer prenatal visits than non-Spanish mothers--16.3 percent versus 6.3 percent had less than 6 visits. Mothers of Spanish origin have a lower percentage of care commencing in the first trimester of pregnancy than did non-Spanish mothers--67.0 percent versus 83.1 percent. The age distributions of out-of-wedlock births to Spanish mothers and non-Spanish mothers are the same, however, the percentage of unmarried mothers to total births is higher for Spanish origin mothers than for non-Spanish mothers--19 versus 5 percent.

TABLE 24

LIVE BIRTHS OF MOTHERS OF SPANISH ORIGIN AND NON-SPANISH ORIGIN BY AGE OF MOTHER, PRENATAL VISITS, PRENATAL CARE, AND OUT-OF-WEDLOCK BIRTHS: UTAH, 1979

	Births by Mother's Origin	
	Spanish Origin	Non-Spanish Origin
Total births	1,513	39,565
Age of mother		
Under 15	6	22
15-19	346	4,197
20-24	537	14,604
25-29	385	12,023
30-34	181	6,148
35-39	41	2,176
40-44	16	368
45+	. .	25
Prenatal visits		
No Care	11	158
1-5	235	2,298
6-9	445	11,416
10-14	705	22,671
15-18	38	1,505
19-27	2	244
27+	1	25
Not stated	75	1,248
Month prenatal care began		
No care	8	161
1st month	103	2,842
2nd month	466	17,618
3rd month	398	11,533
4th month	200	3,432
5th month	104	1,420
6th month	68	722
7th month	66	414
8th month	21	278
9th month	10	86
Not stated	69	1,059
Out-of-wedlock births by age of mother		
Under 15	6	12
15-19	141	920
20-24	90	694
25-29	38	257
30-34	15	101
35-39	4	31
40-44	. .	5
45+	. .	1

Note: Excludes 3 "age not stated," 1 Spanish origin, and 2 non-Spanish origin.

DEATHS

DEATH SUMMARY

The 7,871 deaths of Utah residents in 1979 is coincidentally the same as the 1978 total. The mortality rate of 5.8 per 1,000 population is .2 less than the 1978 rate of 6.0 and is a 3 percent decrease in the death rate.

In Utah, deaths are classified under four categories: "preventable," "violent," "chronic and old age," and "all others."

"Chronic and old age" deaths are usually associated with older age groups. The age-specific rates for these causes increase with advanced years. Examples of this classification of death are cancer; diabetes, over age 55; diseases of the heart; and respiratory diseases, age 65 and over.

"Preventable causes" are those which result in high mortality rates in most underdeveloped areas, and which tend to decrease rapidly with technological advances. Examples of this classification are infectious and parasitic diseases; respiratory diseases, under age 65; certain diseases of early infancy; and "ill-defined conditions." This latter classification tends to decline rapidly with advances in scientific knowledge and improvements in medical care.

"Violent" causes include deaths due to alcoholism, accident, suicide, homicide, and those deaths classified as "unable to determine whether purposely or accidentally inflicted."

"All other causes" include the few remaining causes of death not otherwise classified.

"Preventable" death rates should be declining everywhere. These deaths are preventable to a large extent through good health practices. In Utah in 1979, 71 percent of the 617 "preventable" deaths were to infants under one year of age.

Table 25 shows the crude rates for each major classification during the 1970-1979 period. Two classifications appear to have a trend; they are "chronic and old age" and "preventable." "Preventable" has decreased from 102.5 per 100,000 population in 1970 to 45.1 per 100,000 population in 1979. The decline has been constant except for the years, 1975 and 1978.

"Chronic and old age" had decreased since 1973, rose sharply in 1978, and decreased again in 1979.

TABLE 25

DEATH RATES PER 100,000 POPULATION BY MAJOR CLASSIFICATION: UTAH, 1970-1979

Classification	Death Rates per 100,000 Population, by Year									
	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Chronic and old age	449.8	468.0	452.6	461.9	450.4	441.1	439.4	432.0	442.6	417.7
Preventable	102.5	84.7	81.6	79.9	71.3	77.2	70.0	63.9	68.0	45.1
Violent	87.2	84.0	92.2	91.2	78.8	80.4	74.2	76.6	82.7	71.3

Table 26 shows these classifications by place where the death occurred and by race and sex of decedent. Seventy-two percent of all "chronic and old age" deaths, as well as 85 percent of all "preventable" causes, occurred either in a hospital or nursing home. Only 36 percent of the "violent" causes occurred in these two places. The "white" and "other nonwhite" populations have more than 70 percent of their deaths due to "chronic and old age" causes, whereas the "blacks" have 60 percent and the "Indians," only 24 percent. The "black" and "Indian" populations have larger percentages of their deaths due to "preventable" and "violent" causes than do other races. In fact nearly half of all Utah Indian deaths in 1979 were due to violence, with an extremely high rate of accidents. This reflects the young-age distribution of that population and an unusual rate of involvement in risk-taking activities.

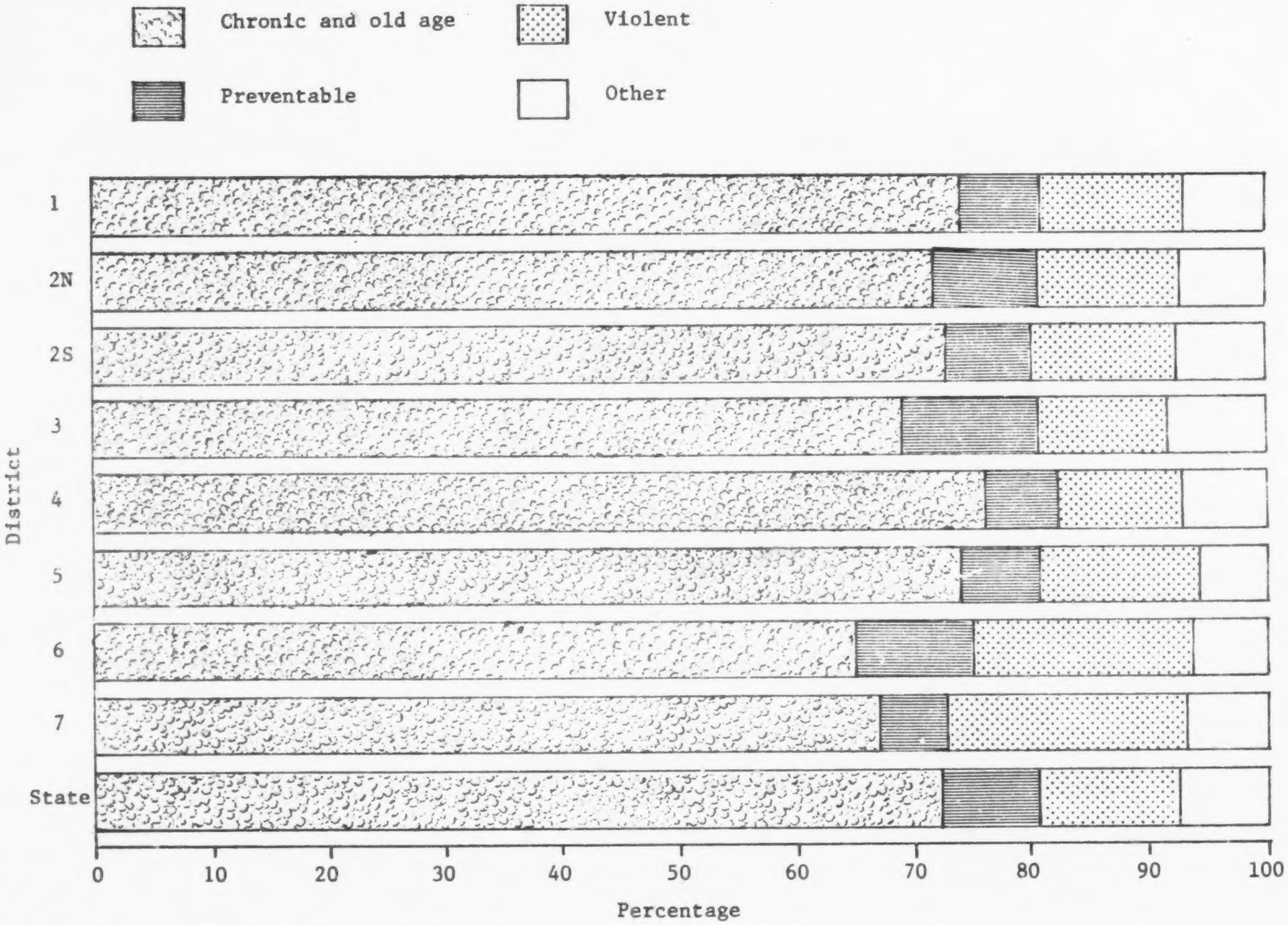
Table A-45 gives the number of deaths for each class by county and district in 1979. The percentage of deaths in each classification varies considerably for each district. The graph in Figure 7 illustrates these differences for each district and the State. The larger percentage of violent deaths in Districts 6 and 7 reflects the larger proportion of Indians in their populations. Table A-46 shows the age and sex distribution for each class of death. As would be expected, 90 percent of those who died at ages over 75 were classified in the "chronic and old age" causes of death. Conversely, 57 percent of those who died under age 15 were

TABLE 26

DEATHS BY MAJOR CLASSIFICATION, PLACE WHERE DEATH OCCURRED RACE AND SEX OF DECEDENT: UTAH, 1979

	Total	Deaths by Major Classification			
		Chronic and Old Age	Preventable	Violent	Residual
Total deaths	7,871	5,710	617	974	570
Place Where Death Occurred					
Hospital	3,955	2,867	503	329	256
Not stated	2	2	. .	. .	. .
Home	1,699	1,302	50	210	137
Enroute to hospital	504	261	31	171	41
Nursing home	1,414	1,232	24	25	133
Clinic, doctor's office, maternal home	11	9	. .	1	1
Other location	286	37	9	238	2
Race and Sex of Decedent					
White	7,705	5,630	599	921	555
Male	4,319	2,993	370	661	295
Female	3,383	2,635	228	260	260
Sex unknown	3	2	1	. .	. .
Black	37	23	4	7	3
Male	25	15	3	5	2.
Female	12	8	1	2	1
Indian	75	18	13	37	7
Male	42	10	6	23	3
Female	33	8	7	14	4
Other nonwhite	54	39	1	9	5
Male	37	27	. .	6	4
Female	17	12	1	3	1

FIGURE 7. PERCENTAGE OF DEATHS EACH CLASS EACH DISTRICT: UTAH, 1979



classified in the preventable causes of death. Sixty-four percent of the deaths to those of ages 25 to 34 were due to violent class causes.

Table 27 compares age-specific mortality rates by sex between Utah and the United States. Although the infant mortality rate is significantly lower in Utah than the United States, the death rates are comparable for the age of 1 year up to age 34 years. At ages 35-44, the mortality rate nationally was 26 percent higher than the rate for Utah residents. At ages 45-54 the national death rate is 41 percent higher than Utah. For each successive age group until age 85 and over the national rate is higher. In the age group 85+ the mortality rate nationally is 27 percent less than in Utah. These data clearly indicate that Utah residents live longer than residents of most other states.

TABLE 27

AGE-SPECIFIC MORTALITY RATES BY SEX: UTAH AND U.S., 1979

	All Ages[1]	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Utah total	5.8	10.7	0.8	0.3	1.0	1.6	1.7	3.5	10.7	27.6	62.8	175.3
Male	6.6	12.5	0.8	0.3	1.6	2.2	2.3	4.7	16.8	37.8	77.1	166.1
Female	5.2	8.7	0.9	0.2	0.4	2.0	1.1	2.6	7.6	19.2	52.7	181.3
U.S.[2] total	8.7	13.7	0.6	0.3	1.2	1.4	2.3	5.9	13.7	29.2	70.1	138.3
Male	9.7	15.5	0.6	0.4	1.8	2.0	3.0	7.7	18.6	40.2	91.3	160.8
Female	7.6	11.8	0.6	0.3	0.6	0.8	1.6	4.2	9.4	20.8	57.4	128.3

[1] Rate for "all ages" includes ages not stated.

[2] Annual Summary for the United States, 1979 Monthly Vital Statistics Report, (PHS) 81-1120 Vol. 28, No. 13 (National Center for Health Statistics, Hyattsville, Md. 20852, Nov. 13, 1980).

Figure 8 shows the percentage distribution of deaths for males and females in 10-year age groups in Utah. Males (except for ages 1-9) had a higher percentage of deaths than did females for all age groups through age 79. Over 62 percent of all females who died, died at age 70 or older; for males this percentage was 46 percent.

Figure 9 shows how the age at death in Utah has changed over the years. Deaths of persons under 45 years of age have shown a steady

FIGURE 8. PERCENTAGE DISTRIBUTION OF DEATHS BY AGE AND SEX: UTAH, 1979

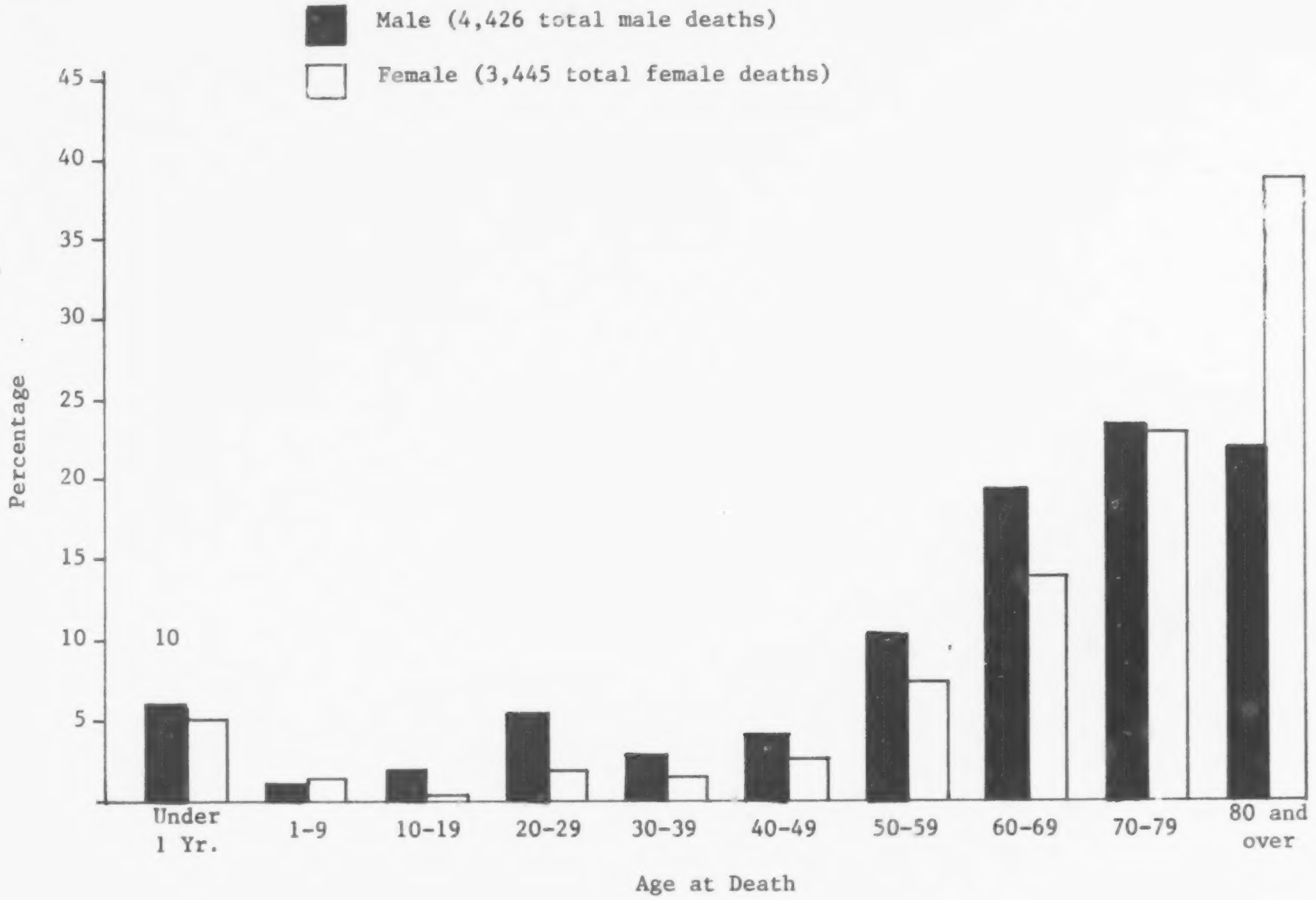
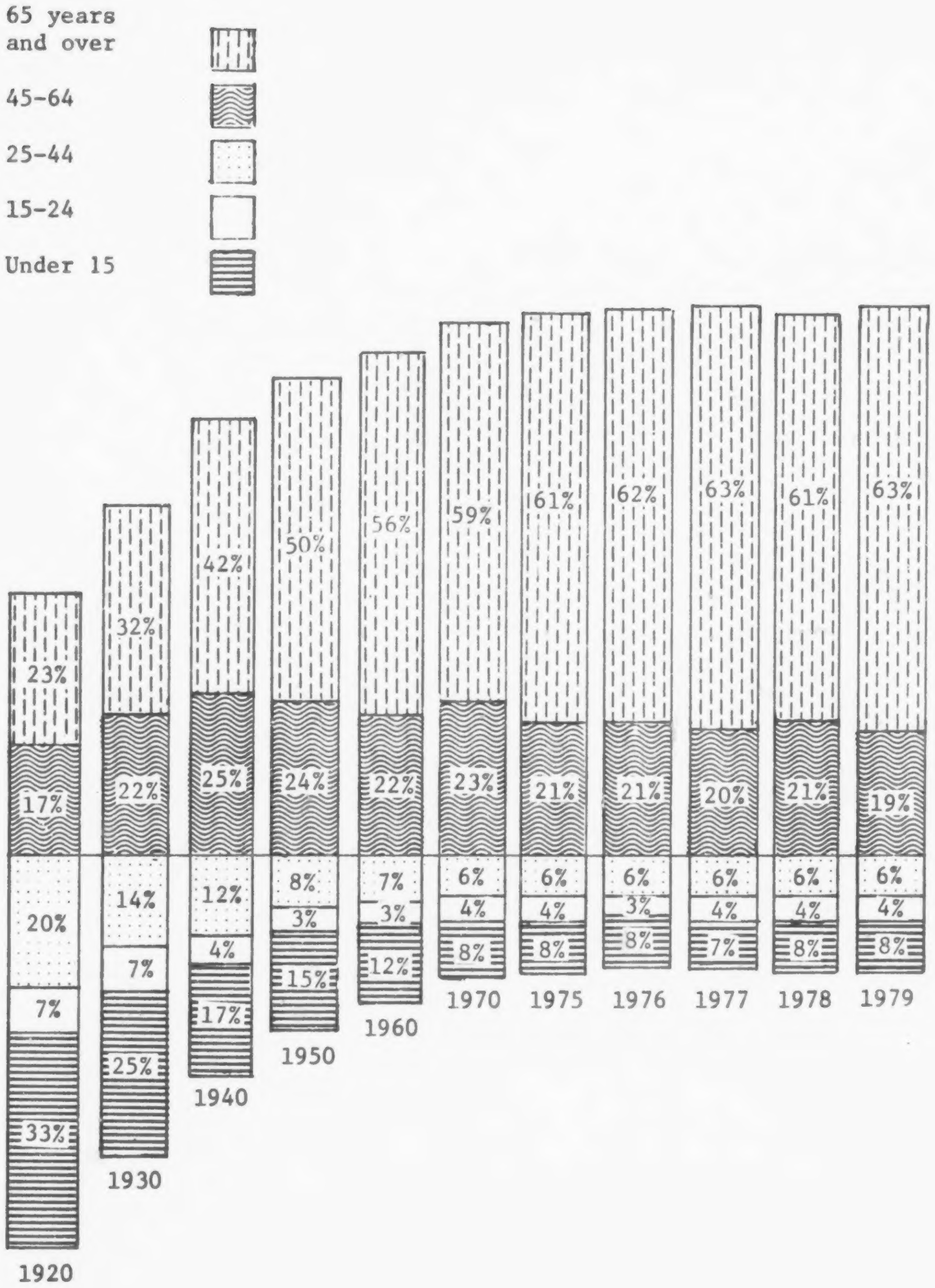


FIGURE 9

TREND OF AGE AT DEATH: UTAH, 1920-1979
(Percentage of Total Deaths)



decline as a proportion of total deaths. Even so, it was not until 1950 that persons 65 years of age and over accounted for 50 percent or more of all deaths. Since 1950, the greatest improvement in the reduction of early deaths has been at under 15 years of age. In 1979, 8 percent of deaths occurred to persons under 15 years of age; in 1950, 15 percent of deaths were in that age group.

Table 28 and Figure 10 give the trend of the leading causes of death for the past 12 and 15 years, respectively.

The order of the first two causes of death has remained unchanged since 1968. "Diseases of the heart," the leading cause of death, accounts for more than twice as many deaths as the second leading cause, "malignant neoplasms." Of those heart disease deaths, 56 percent were male and 44 percent were female. The mean age of those who died of diseases of the heart was 72 years. "Cerebrovascular diseases" was the third leading cause and "accidental death" was the fourth leading cause. The fifth leading cause in 1979 was "chronic obstructive pulmonary disease," the sixth leading cause was "influenza and pneumonia," and the seventh was "certain conditions originating in the perinatal period." The eighth leading cause was "suicide," the ninth leading cause was "diabetes," and the tenth was "congenital anomalies."

The number of deaths and death rate per 100,000 population due to selected causes for the years, 1970-1979, are presented in Tables 29 and 30.

Table 31 gives the number of deaths to Utah residents by county of residence, and the number of deaths occurring in Utah by county of occurrence. Table 7, page 15, gives the population and death rates for each county.

Of those counties with more than 2,500 population, Beaver had the highest death rate (11.8) and San Juan County the lowest (3.1) per 100,000 population. The contrast in rates is due to differences in the age distribution of the population in these counties. Seventy-seven percent of the deaths to residents of Beaver County were persons age 65 or older; while 29 percent of the deaths to residents of San Juan County were in this age group. In 1970 the mean age of Beaver County residents was 29.1 years; the mean age in San Juan County was 18.2 years. These two statistics confirm that the age distributions of the two counties are different--

TABLE 28

LEADING CAUSES OF DEATH, UTAH, 1968-1979

Rank	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Total	6,882	6,791	7,063	7,245	7,323	7,573	7,380	7,519	7,472	7,612	7,871	7,871
1	Heart 2,319	Heart 2,178	Heart 2,236	Heart 2,448	Heart 2,485	Heart 2,463	Heart 2,438	Heart 2,479	Heart 2,501	Heart 2,557	Heart 2,658	Heart 2,800
2	Cancer 925	Cancer 969	Cancer 1,029	Cancer 1,016	Cancer 1,027	Cancer 1,088	Cancer 1,162	Cancer 1,169	Cancer 1,246	Cancer 1,272	Cancer 1,310	Cancer 1,314
3	Cerebro-vascular 653	Cerbro-vascular 646	Cerebro-vascular 662	Cerebro-vascular 734	Cerebro-vascular 713	Cerebro-vascular 793	Cerebro-vascular 783	Cerebro-vascular 725	Cerebro-vascular 675	Cerebro-vascular 671	Accident 694	Cerebro-vascular 628
4	Accident 575	Accident 586	Accident 618	Accident 601	Accident 694	Accident 697	Accident 621	Accident 606	Accident 556	Accident 618	Cerebro-vascular 676	Accident 622
5	Influenza pneumonia 245	Influenza pneumonia 213	Early infancy 231	Early infancy 220	Influenza pneumonia 201	Influenza pneumonia 224	Influenza pneumonia 222	Influenza pneumonia 271	Influenza pneumonia 259	Influenza pneumonia 224	Influenza pneumonia 261	Chron.Obst. Pul.Dis. & Allied Cond 251
6	Early infancy 235	Early infancy 203	Influenza pneumonia 198	Influenza pneumonia 192	Early infancy 193	Early infancy 184	Early infancy 206	Early infancy 198	Early infancy 208	Suicide 180	Early infancy 183	Influenza pneumonia 232
7	Diabetes 131	Diabetes 144	Diabetes 160	Diabetes 183	Diabetes 173	Diabetes 158	Diabetes 157	Suicide 165	Suicide 167	Diabetes 172	Diabetes 167	Early infancy 192
8	Suicide 130	Suicide 114	Suicide 136	Suicide 129	Suicide 139	Suicide 146	Suicide 136	Diabetes 152	Diabetes 150	Early infancy 152	Suicide 167	Suicide 179
9	Congenital anomalies 119	Congenital anomalies 114	Asthma emphysema bronchitis 147	Asthma emphysema bronchitis 126	Alcoholism 123	Alcoholism 141	G.arterio-sclerosis 120	Congenital anomalies 137	Congenital anomalies 131	Other dis. respiratory system 140	Congenital anomalies 162	Diabetes 176
10	G.arterio-sclerosis 97	G.arterio-sclerosis 103	Congenital anomalies 124	Alcoholism 120	Asthma emphysema bronchitis 108	Asthma emphysema bronchitis 127	Asthma emphysema bronchitis 119	Asthma emphysema bronchitis 113	G.arterio-sclerosis 123	Congenital anomalies 135	Other dis. respiratory system 139	Congenital anomalies 235
Residual	1,453	1,521	1,502	1,475	1,467	1,552	1,418	1,499	1,456	1,491	1,454	1,342

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FIGURE 10

MORTALITY RATES PER 100,000 POPULATION FOR SELECTED LEADING CAUSES OF DEATH: UTAH, 1964-1979

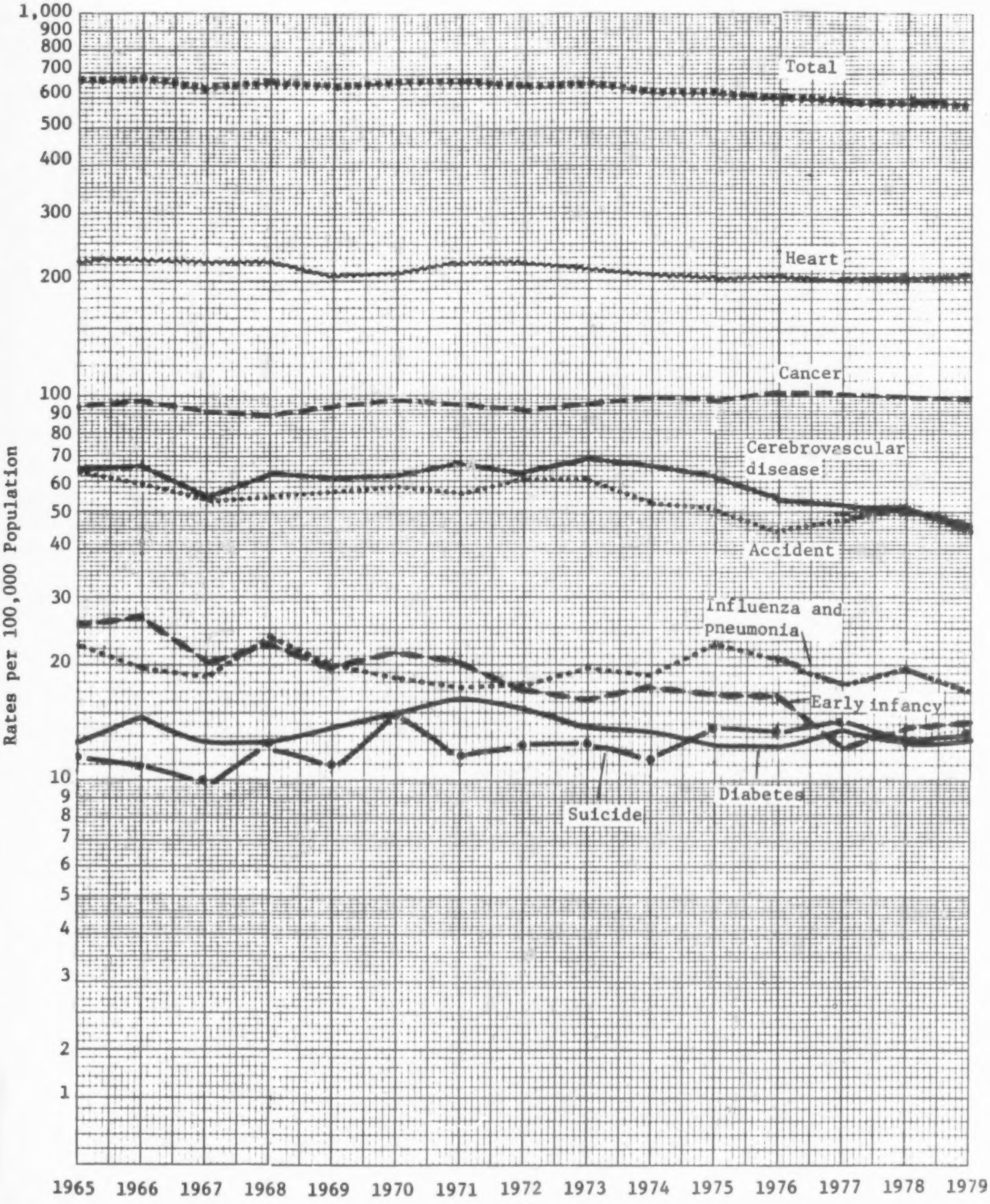


TABLE 29

MORTALITY FOR SELECTED CAUSES OF DEATH: UTAH, 1970-1979

Cause of Death per Ninth Revision of the International Classification of Diseases[1]	Deaths for Each Year									
	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Total, all causes	7,871	7,871	7,612	7,472	7,519	7,380	7,573	7,323	7,245	7,063
Tuberculosis, all forms (010-018)	1	10	6	8	6	8	14	10	13	13
Syphilis and its sequilae (090-097)	1	6	1	. .	3	. .	1	2	1	1
Certain other intestinal infections (007-009)	2	9	10	17	16	18	15	15	17	16
Other infective and parasitic diseases (001-139)	48	46	45	38	43	36	42	42	43	36
Malignant neoplasms (140-208)	1,314	1,309	1,272	1,246	1,169	1,162	1,088	1,027	1,016	1,029
Diabetes mellitus (250)	176	167	172	150	152	157	158	173	183	160
Diseases of the heart (390-398, 402, 404, 410-429)	2,800	2,658	2,557	2,500	2,479	2,438	2,463	2,485	2,448	2,236
Hypertension without mention of the heart (400, 401, 403)	19	13	20	17	15	20	24	18	28	22
Cerebrovascular disease (430-438)	628	676	671	675	725	783	793	713	734	662
General arteriosclerosis (440)	81	105	104	123	93	120	122	104	98	108
Other diseases of circulatory system (441-448)	70	153	175	183	171	144	157	171	190	167
Influenza and pneumonia (480-487)	232	261	224	259	271	222	224	201	192	198
Asthma, bronchitis, and emphysema (490-493)	107	102	118	111	133	119	127	108	126	147
Ulcer of stomach and duodenum (531-533)	26	20	32	31	32	35	39	39	36	49
Hernia and intestinal obstruction (550-553,560)	25	29	36	33	19	32	42	27	32	25
Cirrhosis of the liver (571)	143	112	121	100	126	96	121	106	97	102
Nephritis and nephrosis (580-589)	60	22	18	31	38	28	27	35	29	32
Deliveries and complications of pregnancy, childbirth, and the puerperium (630-678)	6	2	4	7	6	2	5	12	2	6
Congenital anomalies (740-759)	135	162	135	131	137	104	114	107	107	124
Certain conditions originating in the perinatal period (760-779)	192	183	152	208	198	206	184	193	220	231
Symptoms, senility, and ill-defined conditions (780-799)	154	171	176	146	200	188	264	225	231	350
Motor vehicle accidents (E810-E825)	335	384	336	286	278	275	370	388	330	326
Accidents, all others (E800-E807, E826-E827, E830-E838, E840-E845, E850-E859, E860-E949)	287	310	282	270	328	346	327	306	271	292
Suicide (E950-E959)	179	167	180	167	165	134	146	139	129	156
Homicide and legal intervention (E960-E978)	62	65	52	60	36	46	41	43	35	41
All other causes	788	709	706	668	676	651	656	626	631	524

[1] 1978 and previous years coded to Eighth Revision ICDA. See Appendix for comparability ratios.

TABLE 30

MORTALITY RATES FOR SELECTED CAUSES OF DEATH: UTAH, 1970-1979

Cause of Death per Ninth Revision of the International classification of Diseases[1]	Rates per 100,000 Population									
	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Total, all causes	575.8	597.6	599.4	606.5	625.0	625.9	658.5	649.2	661.6	662.5
Tuberculosis, all forms (010-018)	(2)	.8	(2)	0.6	(2)	0.7	1.2	0.9	1.2	1.2
Syphilis and its sequilae (090-097)	(2)	(2)	(2)	. .	(2)	. .	(2)	(2)	(2)	(2)
Certain other intestinal infections (000-009)	(2)	.7	0.8	1.4	1.3	1.5	1.3	1.3	1.6	1.5
Other infective and parasitic diseases (001-139)	3.5	3.5	3.5	3.1	3.6	3.0	3.7	3.7	3.9	3.4
Malignant neoplasms (140-208)	96.1	99.4	100.2	101.1	97.2	98.5	94.6	91.0	92.8	96.5
Diabetes mellitus (250)	12.9	12.7	13.5	12.2	12.6	13.3	13.7	15.3	16.7	15.0
Diseases of the heart (390-398, 402, 404, 410-429)	204.8	201.8	201.3	202.9	206.1	206.7	214.2	220.3	223.6	209.8
Hypertension without mention of the heart (400, 401, 403)	1.4	1.0	1.6	1.4	1.2	1.7	2.1	1.6	2.6	2.1
Cerebrovascular disease (430-438)	45.9	51.2	52.8	54.8	60.3	66.4	69.0	63.2	67.0	62.1
General arteriosclerosis (440)	5.9	8.0	8.2	9.9	7.7	10.2	10.6	9.2	8.9	10.1
Other diseases of circulatory system (441-448)	5.1	11.6	13.8	14.9	14.2	12.2	13.7	15.2	17.4	15.7
Influenza and pneumonia (480-487)	17.0	19.8	17.6	21.0	22.5	18.8	19.5	17.8	17.5	18.6
Asthma, bronchitis, and emphysema (490-493)	7.8	7.7	9.3	9.0	11.1	10.1	11.0	9.6	11.5	13.8
Ulcer of stomach and duodenum (531-533)	1.9	1.5	2.5	2.5	2.7	2.9	3.4	3.5	3.3	4.6
Hernia and intestinal obstruction (550-553, 560)	1.8	2.2	2.8	2.7	1.6	2.7	3.7	2.4	2.9	2.3
Cirrhosis of the liver (571)	10.5	8.5	9.5	8.1	10.5	8.1	10.5	9.4	8.9	9.6
Nephritis and nephrosis (580-584)	4.8	1.6	1.4	2.5	3.2	2.4	2.3	3.1	2.6	3.0
Deliveries and complications of pregnancy, childbirth, and the puerperium (630-678)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	1.1	(2)	(2)
Congenital anomalies (740-759)	9.9	12.3	10.6	10.6	11.4	8.8	9.1	9.5	9.8	11.6
Certain conditions originating in the perinatal period (760-779)	14.0	13.9	12.0	16.9	16.5	17.4	16.0	17.1	20.1	21.7
Symptoms, senility, and ill-defined conditions (780-799)	11.3	13.0	13.9	11.9	16.6	15.9	23.0	19.9	21.1	32.8
Motor vehicle accidents (E810-E825)	24.5	29.2	26.5	23.2	23.1	23.3	32.1	34.4	30.1	30.6
Accidents, all others (E800-E807, E826-E827, E830-E838, E840-E845, E850-E859, E860-E949)	21.0	23.5	22.2	21.9	27.3	29.3	28.4	27.1	24.7	27.4
Suicide (E950-E959)	13.1	12.7	14.2	13.6	13.7	11.4	12.7	12.3	11.8	14.6
Homicide and legal intervention (E960-E978)	4.5	4.9	4.1	4.9	3.0	3.9	3.6	3.8	3.2	3.8

[1] See Table 35 for ICDA changes.

[2] If number of deaths was 7 or less, no rate was computed.

TABLE 31

DEATHS THAT OCCURRED IN UTAH AND TO UTAH RESIDENTS OUTSIDE UTAH, 1979

District and County	Deaths by County of Residence			Deaths by County of Occurrence		
	Total	Occurring In Utah	Occurring Outside of Utah	Total	Resident	Nonresident
Total	7,871	7,660	211	8,275	7,660	615
District 1	495	477	18	436	407	29
Box Elder	191	186	5	178	166	12
Cache	288	279	9	255	238	17
Rich	16	12	4	3	3	. .
District 2N	1,491	1,450	41	1,475	1,412	63
Davis	505	489	16	446	427	19
Morgan	33	32	1	15	15	. .
Weber	953	929	24	1,014	970	44
District 2S	3,619	3,544	75	4,229	3,864	365
Salt Lake	3,466	3,393	73	4,102	3,746	356
Tooele	153	151	2	127	118	9
District 3	1,009	995	14	1,012	985	27
Summit	53	53	. .	42	36	6
Utah	895	882	13	907	889	18
Wasatch	61	60	1	63	60	3
District 4	376	370	6	321	288	33
Juab	43	43	. .	38	32	6
Millard	70	68	2	65	58	7
Piute	12	12	. .	4	3	1
Sanpete	123	123	. .	85	81	4
Sevier	115	112	3	119	107	12
Wayne	13	12	1	10	7	3
District 5	392	373	19	374	318	56
Beaver	52	49	3	39	33	6
Garfield	28	27	1	24	20	4
Iron	104	100	4	96	86	10
Kane	24	24	. .	27	21	6
Washington	184	173	11	188	158	30
District 6	181	167	14	142	135	7
Daggett	2	. .	2	1	1	. .
Duchesne	74	71	3	79	79	. .
Uintah	105	96	9	62	55	7
District 7	308	284	24	286	251	35
Carbon	154	152	2	155	150	5
Emery	59	58	1	26	24	2
Grand	48	43	5	54	42	12
San Juan	47	31	16	51	35	16

San Juan has a predominately younger-age population while Beaver has a predominately older-age population.

Table 32 summarizes the cause-specific fetal death rates in Utah for the past 9 years, 1971-1979. The 1979 fetal death rate was 7.7 per 1,000 live births. This rate is the next to lowest rate recorded. Conditions of the placenta and umbilical cord, the leading causes of fetal death, accounted for 42 percent of all fetal deaths. "Complications of pregnancy" and "congenital anomalies" were the next largest causes of fetal deaths in 1979.

Over 5 percent of all deaths to Utah residents occurred among infants. Of the 438 infant deaths, 60 percent were males and 40 percent were females. Almost two-thirds (63 percent) of all infant deaths occurred during the first month of life, with 29 percent occurring during the first day of life. Twenty-five years earlier, in 1954, 72 percent of infant deaths to Utah residents occurred during the first month of life, with 33 percent during the first day of life. The infant mortality rate has decreased by about 50 percent since 1954, the greatest change occurred in the "under 1 week" group. Table 33 summarizes the rates of infant mortality components, 1954-1979.

Table 34 provides infant, neonatal, and perinatal deaths and rates by counties for 1979.

Table 35 summarizes the annual number and infant mortality rates per 1,000 live births by condition present at birth for the years 1971-1979. In 1979, 68 percent of infant deaths were due to conditions present at birth, and 87 percent of the 298 deaths due to these causes (ICDA 740-779) occurred during the neonatal period (Reference Table A-33). One hundred twenty-seven neonatal deaths (46 percent) occurred during the first day of life.

Table 36 shows leading causes of death by age groups. For groups over age 1 through age 44, accidents are the leading cause of death. From age 45 and over, heart disease becomes the leading cause of death. Malignant neoplasms is the second leading cause of death in all age groups over age 35 through age 84. Under age 5, congenital anomalies is a major contributor. From age 15 to age 34, suicide is the second leading cause; and strokes are a major cause at age 75 and over.

TABLE 32

FETAL DEATHS BY SELECTED CAUSES: UTAH, 1971-1979

Cause of Fetal Death and Code per Ninth Revision of the ICDA	1979		1978		1977		1976		1975		1974		1973		1972		1971	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Total	317	7.7	283	7.3	318	8.4	275	7.8	257	8.1	286	9.6	219	7.8	263	9.8	258	9.4
Umbilical cord (762.4-762.6)	75	1.8	62	1.6	73	1.9	58	1.6	73	2.3	61	2.0	39	1.4	50	1.9	62	2.2
Conditions of placents (762.0-762.3)	57	1.4	41	1.1	46	1.2	43	1.2	51	1.6	53	1.8	43	1.5	45	1.7	43	1.6
Congenital anomalies (740-759)	21	0.5	17	0.4	22	0.6	20	0.6	21	0.7	24	0.8	19	0.7	14	0.5	21	0.8
Hemolytic disease (773-774)	6	. .	4	. .	8	0.2	7	. .	7	. .	2	. .	4	. .	10	0.4	14	0.5
Complications of pregnancy and childbirth (761)	34	0.8	36	0.9	37	1.0	31	0.9	25	0.8	35	1.2	22	0.8	35	1.3	38	1.4
Immaturity, unqualified (765)	7	. .	11	0.3	20	0.5	21	0.6	11	0.3	14	0.5	12	0.4	16	0.6	11	0.4
Residual	117		96		98		85		65		89		71		88		60	

Note: Rates per 1,000 live births. Rate not computed for 7 or less events. 1978 and previous years coded to Eighth Revision ICDA; see Appendix for comparability ratios.

TABLE 33

RESIDENT INFANT MORTALITY RATES[1] BY AGE AT DEATH: UTAH, 1954-1979

Year	Total	Age at Death			
		Under 1 Day	1-6 Days	1-4 Weeks	1-11 Months
1979	10.7	3.1	2.4	1.3	4.0
1978	11.4	4.0	2.6	1.2	3.6
1977	10.0	3.4	2.3	1.0	3.3
1976	11.7	4.0	2.7	1.2	3.8
1975	13.1	3.7	4.3	1.4	3.9
1974	12.2	4.4	3.0	1.6	3.2
1973	12.7	4.2	3.5	1.3	3.7
1972	13.4	4.6	3.8	1.4	3.5
1971	13.9	5.2	4.2	1.3	3.2
1970	15.0	5.6	4.5	1.0	3.9
1969	15.8	6.0	4.3	1.2	4.3
1968	17.7	7.3	5.0	1.0	4.4
1967	16.7	6.8	4.5	1.2	4.2
1966	18.3	8.2	5.8	1.0	3.3
1965	18.8	7.4	5.2	.9	5.3
1964	20.2	7.8	5.7	1.2	5.5
1963	18.6	6.8	4.9	1.2	5.7
1962	20.0	6.6	6.3	1.3	5.8
1961	20.2	7.7	6.2	1.1	5.2
1960	19.6	6.8	6.7	.9	5.2
1959	20.0	7.2	6.4	1.7	4.7
1958	22.2	7.0	8.2	1.6	5.4
1957	21.5	7.1	7.6	1.9	4.9
1956	22.4	8.3	6.6	1.8	5.7
1955	20.2	7.1	7.3	1.6	4.2
1954	20.3	6.7	6.0	1.8	5.8

[1] Rates are per 1,000 live births.

TABLE 34

INFANT, NEONATAL, AND PERINATAL MORTALITY RATES PER 1,000 LIVE BIRTHS: UTAH, 1979

District and County	Births	Infant (Under 1 Year)		Neonatal (Under 28 Days)		Perinatal (Under 28 Days and Fetal)	
		Deaths	Rate	Deaths	Rate	Deaths	Rate
Total	41,078	438	10.7	278	6.8	595	14.5
District 1	2,611	26	10.0	19	7.3	38	14.6
Box Elder	877	8	9.1	7	. .	14	16.0
Cache	1,670	17	10.2	11	6.6	23	13.8
Rich	64	1	. .	1	. .	1	. .
District 2N	7,646	84	11.0	57	7.5	119	15.7
Davis	3,946	40	10.1	27	6.8	53	13.4
Morgan	113	1	. .	1	. .	1	. .
Weber	3,587	43	12.0	29	8.1	65	18.1
District 2S	17,145	173	10.1	97	5.6	233	13.6
Salt Lake	16,488	162	9.8	94	5.7	225	13.6
Tooele	657	11	16.7	3	. .	8	12.2
District 3	8,295	100	12.1	74	8.9	135	16.3
Summit	218	1	. .	1	. .	1	. .
Utah	7,861	95	12.1	70	8.9	130	16.5
Wasatch	216	4	. .	3	. .	4	. .
District 4	1,259	12	9.5	6	. .	14	11.1
Juab	162	. .	. .	. .	. .	1	. .
Millard	233	2	. .	1	. .	1	. .
Piute	22	. .	. .	. .	. .	. .	. .
Sanpete	372	3	. .	2	. .	5	. .
Sevier	424	7	. .	3	. .	6	. .
Wayne	46	. .	. .	. .	. .	1	. .
District 5	1,554	18	11.6	14	9.0	25	16.1
Beaver	131	1	. .	1	. .	2	. .
Garfield	87	1	. .	1	. .	3	. .
Iron	493	9	18.3	6	. .	12	24.3
Kane	97	. .	. .	. .	. .	. .	. .
Washington	746	7	. .	6	. .	8	10.7
District 6	1,038	12	11.6	8	7.7	16	15.4
Daggett	17	. .	. .	. .	. .	. .	. .
Duchesne	402	4	. .	3	. .	8	19.9
Uintah	619	8	12.9	5	. .	8	12.9
District 7	1,530	13	8.5	3	. .	15	9.8
Carbon	585	2	. .	. .	. .	6	. .
Emery	385	4	. .	2	. .	5	. .
Grand	198	3	. .	. .	. .	2	. .
San Juan	362	4	. .	1	. .	2	. .

Note: If number of deaths was 7 or less, no rate was computed.

TABLE 35

RESIDENT INFANT MORTALITY BY SELECTED CONDITIONS PRESENT AT BIRTH: UTAH, 1971-1979

Cause of Infant Death and Code per Ninth Revision of the ICDA	1979		1978		1977		1976		1975		1974		1973		1972		1971	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Total	438	10.7	443	11.4	381	10.0	414	11.7	415	13.1	364	12.1	354	12.7	360	13.4	382	13.9
Congenital anomalies (740-759)	107	2.6	123	3.2	98	2.6	90	2.5	102	3.2	77	2.5	82	2.9	84	3.1	78	2.8
Complication of pregnancy and childbirth (760-764, 766, 770-779)	98	2.9	29	0.7	25	0.7	46	1.3	16	0.5	14	0.4	56	2.0	35	1.3	50	1.8
Sudden infant death (798.0)	85	2.1	56	1.4	48	1.3	46	1.3	37	1.2	33	1.1	N/A	. .	N/A	. .	N/A	. .
Respiratory distress syndrom (769)	55	1.3	36	0.9	22	0.6	26	0.7	18	0.6	17	0.5	16	6.0	30	1.1	29	1.1
Asphyxia of newborn unspecified (768)	10	0.2	28	0.7	24	0.6	20	0.6	24	0.8	29	0.9	20	0.7	36	1.3	44	1.6
Immaturity unqualified (765)	28	0.7	21	0.5	24	0.6	29	0.8	26	0.8	32	1.0	27	1.0	30	1.1	29	1.1
Others	34		176		160		154		166		132		103		90		100	

Note: Rates per 1,000 live births. 1978 and previous years coded to Eighth Revision of ICDA. See Appendix for comparability ratios. N/A = not available.

TABLE 36

LEADING CAUSES OF DEATH FOR RESIDENTS: UTAH, 1979

Cause of Death per Ninth Revision of the International Classification of Diseases	Number of Deaths	Age Specific Death Rate per 100,000
Fetal Deaths		
Total all causes	317	7.7
Conditions of umbilical cord (762.4-762.6)	75	1.8
Conditions of the placenta (762.0-762.3)	57	1.4
Complications related to pregnancy and childbirth (761)	34	0.8
Congenital anomalies (740-759)	21	0.5
Immaturity unqualified (765)	7	0.2
All other causes	123	--
Infant Deaths[1]		
Total all causes	438	10.7
Congenital anomalies (740-759)	107	2.6
Other complications of pregnancy and childbirth (760-764, 766, 770-779)	89	2.2
Sudden infant death (798.0)	85	2.1
Respiratory distress syndrome (769)	55	1.3
Immaturity unqualified (765)	28	0.7
Birth trauma (767)	9	0.2
All other causes	55	--
Age 1-4		
Total all causes	87	84.3
Accidents (E800-E949)	40	38.6
Congenital anomalies (740-759)	13	12.6
Malignant neoplasms (140-208)	6	5.8
All other causes	28	--
Age 5-14		
Total all causes	80	25.7
Accidents (E800-E949)	42	13.5
Malignant neoplasms (140-208)	8	2.6
All other external causes (E980-E989)	7	2.3
Congenital anomalies (740-759)	4	1.3
All other causes	19	--

[1] Rates per 1,000 live births.

TABLE 36--Continued

Cause of Death per Ninth Revision of the International Classification of Diseases	Number of Deaths	Age Specific Death Rate per 100,000
Age 15-24		
Total all causes	275	99.4
Accidents (E800-E949)	151	54.6
Suicide (E950-E959)	43	15.5
Homicide (E960-E978)	21	7.6
Malignant neoplasms (140-208)	15	5.4
All other causes	45	--
Age 25-34		
Total all causes	267	159.2
Accidents (E800-E949)	102	60.8
Suicide (E950-E959)	46	27.4
Malignant neoplasms (140-208)	34	20.3
Homicide (E960-E979)	12	7.2
Injury, undetermined whether accidentally or purposely inflicted (E980-E989)	9	5.4
Heart disease (390-429)	9	5.4
All other causes	55	--
Age 35-44		
Total all causes	232	167.2
Accidents (E800-E949)	54	38.9
Malignant neoplasms (140-208)	33	23.8
Heart disease (390-398, 402, 404, 410-429)	33	23.8
Suicide (E950-E959)	33	23.8
Diabetes (250)	11	7.9
Cirrhosis of liver (571.0-571.9)	10	7.2
All other causes	58	--
Age 45-54		
Total all causes	461	353.7
Heart disease (390-398, 402, 404, 410-429)	153	117.4
Malignant neoplasms (140-208)	111	85.2
Accidents (E800-E949)	45	34.5
Cirrhosis of liver (571.0-571.9)	22	16.9
Suicide (E950-E959)	15	11.5
Cerebrovascular disease (430-438)	14	10.7
Diabetes (250)	11	8.4
Homicide (E960-E978)	10	7.7
All other causes	80	--
Age 55-64		
Total all causes	1,056	1,073.8
Heart disease (390-398, 402, 404, 410-429)	405	411.8
Malignant neoplasms (140-208)	297	302.0
Accidents (E800-E949)	48	48.8
Cerebrovascular disease (430-438)	40	40.7
Cirrhosis of liver (571.0-571.9)	26	26.4

TABLE 36--Continued

Cause of Death per Ninth Revision of the International Classification of Diseases	Number of Deaths	Age Specific Death Rate per 100,000
Age 55-64-(Continued)		
Diabetes (250)	24	24.4
Bronchitis, emphysema, and asthma (490-493)	19	19.3
Influenza and pneumonia (480-487)	19	19.3
Suicide (E950-E959)	16	16.3
Other diseases of respiratory system (496)	15	15.3
All other causes	147	--
Age 65-74		
Total all causes	1,719	2,765.0
Heart disease (390-398, 402, 404, 410-429)	694	1,116.3
Malignant neoplasms (140-209)	407	654.7
Cerebrovascular disease (430-438)	123	197.8
Accidents (E800-E9490	59	94.9
Other diseases of respiratory system (496)	58	93.3
Influenza and pneumonia (480-487)	46	74.0
Bronchitis, emphysema, and asthma (490-493)	39	62.7
Diabetes (250)	35	56.3
Aortic aneurysm (441)	20	32.2
All other causes	238	--
Age 75-84		
Total all causes	1,896	6,281.7
Heart disease (390-398, 402, 404, 410-429)	848	2,809.5
Malignant neoplasms (140-209)	296	980.7
Cerebrovascular disease (430-438)	231	765.3
Influenza and pneumonia (480-487)	59	195.5
Diabetes (250)	57	188.8
Other diseases of respiratory system (496)	44	145.8
Accidents (E800-E949)	38	125.9
Bronchitis, emphysema, and asthma (490-493)	33	109.3
Arteriosclerosis (440)	24	79.5
Aortic aneurysm (441)	13	43.1
All other causes	253	--
Age 85+		
Total all causes	1,357	17,534.6
Heart disease (390-398, 402, 404, 410-429)	646	8,347.3
Cerebrovascular disease (430-438)	210	2,713.5
Malignant neoplasms (140-208)	106	1,369.7
Influenza and pneumonia (480-487)	95	1,227.5
Arteriosclerosis (440)	41	529.8
Accidents (E800-E949)	32	413.5
Diabetes (250)	26	336.0
Other diseases of respiratory system (496)	21	271.4
Senility (797)	19	245.5
All other causes	161	--

Tables 37 and 38 show the deaths from malignant neoplasms for the years, 1970-1979, by sex of deceased and site of neoplasm. The five leading sites remained unchanged from 1978 to 1979 for males. For females, the two leading sites remained unchanged.

In 1978 a new item was added to the death certificate. This item indicated if the decedent was of Spanish origin. Table 39 is a summary of leading causes of death and age at death for decedents of Spanish origin compared to non-Spanish origin decedents. The leading causes of death are the same for both Spanish origin decedents and non-Spanish decedents. However, the percentage of Spanish origin decedents that died of accidental causes is much larger than the non-Spanish population, 11.0 percent versus 7.9 percent. Another notable difference is the percentage who died of heart and circulatory causes--32.4 percent of the Spanish origin decedents succumbed to these causes versus 45.7 percent of non-Spanish origin decedents. For many of the other causes the number of occurrences are too small to determine if there is a significant difference in the percentage dying of that cause. The distribution of age-at-death for Spanish decedents is similar to that of the non-Spanish population with two noticeable exceptions: proportionately, twice as many Spanish origin decedents died at ages 25-34, and only two-thirds as many died at ages 75 and over, compared to non-Spanish decedents.

TABLE 37

DEATHS FROM MALIGNANT NEOPLASMS TO MALES: UTAH, 1970-1979

Site of Lesion	Malignant Deaths by Year									
	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Total	697	695	656	686	673	635	581	573	586	562
Lung, bronchus, and trachea (162)	177	145	144	153	142	148	130	120	132	122
Prostate (185)	96	92	83	101	93	71	79	86	83	68
Large intestine (153)	80	54	71	50	62	56	50	47	43	47
Pancreas (157)	35	36	38	43	45	39	45	36	20	35
Leukemia (204-207	15	50	46	35	41	34	32	32	33	35
Stomach (151)	29	25	22	30	32	30	30	43	37	35
Lymphoma (200-202	33	49	29	39	30	39	30	32	43	34
Kidney (189)	16	14	19	11	13	9	22	12	14	16
Bladder (188)	13	21	19	20	17	32	17	14	18	16
Brain and central nervous system (191-192)	25	16	18	24	24	18	14	17	18	16
Liver, bile ducts, gallbladder (155-156)	9	12	10	12	14	10	10	8	8	11
Rectum (154)	12	14	14	12	14	10	8	13	18	12
Multiple myeloma (203)	21	12	14	15	6	16	8	12	9	11
Skin (172-173)	20	22	17	17	15	12	7	16	12	11
Esophagus (150)	9	14	14	22	19	12	6	11	11	11
Bone, connective and soft tissue (170-171)	10	7	12	8	8	5	6	5	11	10
All other sites	95	112	86	94	98	94	87	69	76	72

Note: 1978 and previous years coded to Eighth Revision ICDA; see appendix for comparability ratios.

TABLE 38

DEATHS FROM MALIGNANT NEOPLASMS TO FEMALES: UTAH, 1970-1979

Site of Lesion	Malignant Deaths by Year									
	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Total	617	642	618	572	524	553	507	454	430	467
Breast (174)	120	137	142	111	95	129	113	102	112	89
Large intestine (153)	72	75	69	75	62	65	58	54	44	60
Overy (183)	40	48	53	29	35	29	40	36	30	36
Pancreas (157)	34	33	40	22	27	31	37	29	22	14
Lung, bronchus, and trachea (162)	65	37	29	34	32	26	31	24	23	25
Uterus (180-182)	22	37	31	42	28	44	30	31	34	31
Stomach (151)	24	21	22	18	19	31	27	8	19	16
Lymphoma (200-202)	23	24	26	29	26	19	21	16	14	17
Leukemia (204-207)	15	34	29	30	23	24	17	24	24	41
Liver, bile ducts, gall bladder (155-156)	18	23	12	13	12	15	14	15	5	17
Skin (172-173)	14	16	8	7	16	8	13	11	8	9
Bladder (188)	6	12	11	6	7	5	9	2	7	6
Rectum (154)	16	7	8	14	12	13	9	13	7	11
Brain and central nervous system (191-192)	21	15	16	19	22	20	8	13	14	11
Multiple myeloma (203)	21	16	10	11	5	10	8	7	10	5
Bone, connective and soft tissue (170-171)	7	6	12	8	9	10	7	9	8	6
Kidney (189)	10	4	13	10	5	8	7	9	5	8
All other sites	89	97	87	94	71	66	58	51	44	65

Note: 1978 and previous years coded to Eighth Revision ICDA; see Appendix for comparability ratios.

TABLE 39

MORTALITY DATA BY CAUSE AND AGE AT DEATH FOR SPANISH ORIGIN AND ALL NATIONALITIES: UTAH RESIDENTS, 1979

	Spanish Origin		Non-Spanish Origin	
	Number	Percentage	Number	Percentage
Cause of death				
Total all causes	201	100.0	7,670	100.0
Heart disease	60	29.9	2,910	37.9
Cancer	58	18.9	1,256	16.4
Nonmotor vehicle accidents	14	7.0	273	3.6
Motor vehicle accidents	8	4.0	327	4.3
Cerebrovascular	5	2.5	623	8.1
Suicide	5	2.5	174	2.3
Pneumonia-Influenza	9	4.5	223	2.9
Cirrhosis of the liver	13	6.5	130	1.7
Congenital anomalies	5	2.5	130	1.7
Certain causes of mortality in early infancy	5	2.5	187	2.4
Homicide	5	2.5	57	.8
All other causes	34	16.9	1,360	17.8
Age at death				
Total all causes	201	100.0	7,670	100.0
Under 1	15	7.5	423	5.5
1-4	2	1.0	85	1.1
5-14	4	2.0	76	1.0
15-24	11	5.5	264	3.4
25-34	14	7.0	253	3.3
35-44	11	5.5	221	2.9
45-54	11	5.5	450	5.9
55-64	38	18.9	1,018	13.3
65-74	38	18.9	1,681	21.9
75+	56	27.9	3,197	41.7

VIOLENT DEATH

VIOLENT DEATH SUMMARY

There were 974 Utah residents who died of violent causes in 1979. This total represents 12 percent of all deaths to Utah residents. Violent causes are defined as accident, alcoholism, homicide, suicide, and "injury but unable to determine whether accidentally or purposely inflicted." Deaths from these causes are typically identified as "coroner" or "medical examiner" cases. The reporting of such cases is influenced by the quality of the medical legal system in a state. Utah adopted a state-wide medical examiner system in 1968. Improvement in reporting since then accounts for some of the increase in the violent death rates.

Table 40 shows the death rate per 100,000 population for each type of violent death for the past 10 years.

TABLE 40

MORTALITY RATES BY TYPE OF VIOLENT DEATH: UTAH, 1970-1979

Type of Violence	Rates per 100,000 Population									
	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Total	71.3	79.7	76.6	74.2	80.4	78.7	91.2	92.0	84.1	87.0
Accident	45.5	52.7	48.7	45.1	50.4	52.7	60.6	61.5	54.9	58.0
Alcoholism	5.2	7.4	8.1	9.0	10.7	8.3	12.3	10.9	11.0	8.4
Homicide	4.5	4.9	4.1	4.9	3.0	3.9	3.6	3.8	3.2	3.8
Suicide	13.1	12.7	14.2	13.6	13.7	11.4	12.7	12.3	11.8	14.6
Injury, unable to determine whether accidentally or purposely inflicted	2.9	2.1	1.6	1.6	2.6	2.4	2.1	3.5	3.2	2.2

The trend in the mortality rate for all violent deaths has been erratic during the period, 1970-1979. For the years, 1972-1976, the accident rate declined, with a sharp drop from 1973 to 1974; however, in 1977 and 1978 it increased, and dropped again in 1979. The nation-wide fuel shortage and mandatory 55-miles-per-hour speed limit imposed since 1974 may have contributed to the reduction in accidental deaths during the 1974-1976 time period.

Rates for alcoholism have decreased for the last 5 years. The rate of alcoholism decreased 30 percent over the preceding year, and is the lowest rate recorded for the past 10 years.

Table 41 summarizes the distribution of violent deaths by type in 1979. Accidental deaths comprised the largest percentage, about two-thirds of all violent deaths to Utah residents. Accidents claimed the lives of 622 Utahns; of these, 70 percent were males and 30 percent females.

TABLE 41

VIOLENT DEATHS BY TYPE TO RESIDENTS: UTAH, 1979

Type of Violence	Number	Percentage
Total	974	100.0
Accident	622	63.9
Alcoholism	71	7.3
Homicide	62	6.4
Suicide	179	18.5
Injury, unable to determine whether accidentally or purposely inflicted	40	4.1

Suicide accounted for more than 18 percent of the violent fatalities in 1979 and was the second leading cause of violent death. Of 179 suicides, 83 percent were males and 17 percent, females. The rate was 13.1 per 100,000 population. Nationally, the suicide rate in 1979 was 12.6.

There were 40 Utah residents for whom death was classified as "injury but not determined whether accidentally or purposely inflicted." Over one-half of these were males.

Table 42 gives the frequency of methods for self-inflicted deaths by sex for each year, 1964-1979. During this period the annual number of suicides increased from 85 in 1964 to 179 in 1979. The rates have also increased from 8.7 to 13.1 per 100,000 population. Over this 16-year period the number of male suicides increased by 111 percent, while the number of female suicides increased by 107 percent.

The methods used most frequently in 1979 were firearms or explosives (67 percent) and poisoning (22 percent). Table 43 summarizes the

TABLE 42

DEATHS TO RESIDENTS DUE TO SUICIDE BY YEAR, SEX, AND METHOD: UTAH, 1964-1979

Year and Sex	Suicidal Deaths by Method Used							
	Total E950-E959	All Poisoning E950-E952	Hanging and Suffocation E953	Drowning E954	Firearms and Explosives E955	Cutting and Piercing Instruments E956	Jumping from High Places E957	All Others
1979	179	40	14	. .	120	1	1	3
Male	148	26	12	. .	107	. .	1	2
Female	31	14	2	. .	13	1	. .	1
1978	167	43	8	. .	109	2	3	2
Male	134	25	3	. .	101	2	2	1
Female	33	18	5	. .	8	. .	1	1
1977	180	53	17	. .	106	. .	3	1
Male	147	34	13	. .	98	. .	2	. .
Female	33	19	4	. .	8	. .	1	1
1976	167	41	18	. .	98	6	2	2
Male	129	27	14	. .	80	5	1	2
Female	38	14	4	. .	18	1	1	. .
1975	165	41	14	. .	101	2	5	2
Male	132	25	10	. .	90	2	3	. .
Female	33	16	4	. .	11	. .	2	. .
1974	134	48	8	. .	77	1	. .	. .
Male	104	33	8	. .	63	. .	. .	. .
Female	30	15	. .	. .	14	1	. .	. .
1973	146	39	13	1	85	2	1	5
Male	108	23	12	1	68	2	. .	2
Female	38	16	1	. .	17	. .	1	3
1972	139	31	13	2	83	2	1	7
Male	106	19	11	. .	70	2	. .	4
Female	33	12	2	2	13	. .	1	3
1971	129	28	18	. .	81	. .	1	1
Male	88	11	14	. .	62	. .	. .	1
Female	41	17	4	. .	19	. .	1	. .
1970	156	49	16	3	83	2	2	1
Male	114	25	13	1	72	2	1	. .
Female	42	24	3	2	11	. .	1	1
1969	114	43	9	. .	56	3	2	1
Male	87	27	8	. .	49	2	1	. .
Female	27	16	1	. .	7	1	1	1
1968	130	35	13	2	76	2	1	1
Male	105	22	10	1	69	2	1	. .
Female	25	13	3	1	7	. .	. .	1
1967	97	22	13	. .	56	4	1	1
Male	79	12	9	. .	52	4	1	1
Female	18	10	4	. .	4	. .	. .	. .
1966	101	21	13	1	64	. .	1	1
Male	82	13	12	. .	56	. .	1	. .
Female	19	8	1	1	8	. .	. .	1
1965	115	36	5	. .	70	2	1	1
Male	82	19	4	. .	56	1	1	1
Female	33	17	1	. .	14	1	. .	. .
1964	85	27	8	3	44	1	2	. .
Male	70	20	8	2	38	1	1	. .
Female	15	7	. .	1	6	. .	1	. .

Note: The cause of death numbers are as indicated in the Eighth and Ninth Revision ICDA. In 1960-1967 the Seventh Revision of the ICDA was used.

percentage distribution of the most frequently used methods for each of the sexes for 1979 and the 18-year average, 1961-1978. The total distributions did not vary significantly. Although the number of female suicides (31) in 1979 was small and the percentage distribution may be statistically unreliable, 42 percent of the female suicides were accomplished with firearms compared with an average of 35 percent for the last 18 years. Firearms were most frequently used to commit suicide in 1979 by males (72 percent). Forty-five percent of the females used poison (traditionally the most frequent method of females) to commit suicide in 1979.

TABLE 43

SUICIDES TO RESIDENTS BY METHOD AND SEX: UTAH, 18-YEAR AVERAGE, 1979

Cause	Percentage Each Cause					
	1979			18-Year Average		
	Total	Male	Female	Total	Male	Female
Total (E950-E959)	100.0	100.0	100.0	100.0	100.0	100.0
Poisoning (E950-E952)	22.3	17.6	45.2	26.6	20.2	48.1
Hanging and suffocation (E953)	7.8	8.1	6.5	9.5	9.6	8.6
Firearms and explosives (E955)	67.0	72.3	41.9	59.1	66.0	35.3
All others (E954, E956, E957, E958, E959)	2.8	2.0	6.4	4.8	4.2	8.0

Table 44 summarizes suicidal deaths by age and sex for the years, 1968 through 1979. Table 45 shows the percentage distribution of suicides by age and sex for the years, 1979 and the 18-year average, 1961 through 1978. The mean age in 1979 for male suicides was 40.0 years; for females it was 37.2 years. During the previous 10 years the mean ages for males and females were 42.2 and 42.7 years, respectively.

The current approach to accidental deaths is to report data by occurrence in the State, rather than to residents of the State. During 1979, 670 accidental deaths occurred in the State. The most frequent cause of accidental death occurring in Utah was motor vehicle accidents.

TABLE 44

DEATHS TO RESIDENTS DUE TO SUICIDE BY YEAR, SEX, AND AGE: UTAH, 1968-1979

Year and Sex	Total	Deaths Due to Suicide by Age Group								
		Under 15	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75+
1979 total	179	1	15	28	46	33	15	16	16	9
Male	148	. .	12	25	38	25	13	12	16	7
Female	31	1	3	3	8	8	2	4	. .	2
1978 total	167	2	12	27	30	27	20	25	17	7
Male	134	2	9	26	25	19	16	19	12	6
Female	33	. .	3	1	5	8	4	6	5	1
1977 total	180	2	17	25	35	29	28	24	14	6
Male	147	2	17	23	29	23	21	14	12	6
Female	33	. .	. .	2	6	6	7	10	2	. .
1976 total	167	. .	13	15	38	24	31	28	13	5
Male	129	. .	9	14	31	18	20	23	10	4
Female	38	. .	4	1	7	6	11	5	3	1
1975 total	165	. .	22	22	36	26	21	15	15	8
Male	132	. .	17	20	32	18	15	10	13	7
Female	33	. .	5	2	4	8	6	5	2	1
1974 total	134	2	6	17	32	24	24	17	10	2
Male	104	1	3	14	24	19	20	12	10	1
Female	30	1	3	3	8	5	4	5	. .	1
1973 total	146	4	8	11	37	35	23	14	9	5
Male	108	3	7	9	25	25	15	12	7	5
Female	38	1	1	2	12	10	8	2	2	. .
1972 total	139	. .	5	16	26	29	26	25	6	6
Male	106	. .	5	15	18	20	20	18	5	5
Female	33	. .	. .	1	8	9	6	7	1	1
1971 total	129	1	9	17	17	30	21	16	13	5
Male	88	1	8	14	9	15	15	13	9	4
Female	41	. .	1	3	8	15	6	3	4	1
1970 total	156	2	15	17	19	28	29	22	13	11
Male	114	2	10	15	12	16	23	17	10	9
Female	42	. .	5	2	7	12	6	5	3	2
1969 total	114	1	8	13	21	22	24	15	6	4
Male	87	. .	4	11	19	19	17	10	3	4
Female	27	1	4	2	2	3	7	5	3	. .
1968 total	130	2	10	10	29	26	20	19	7	7
Male	105	1	10	9	24	18	13	16	7	7
Female	25	1	. .	1	5	8	7	3	. .	. .

TABLE 45

SUICIDES TO RESIDENTS BY AGE AND SEX: UTAH, 18-YEAR AVERAGE AND 1979

Age Group	Percentage Suicides by Year and Sex					
	1979			18-Year Average		
	Total	Male	Female	Total	Male	Female
Total	100.0	100.0	100.0	100.0	100.0	100.0
Under 15	0.6	0.0	3.2	1.1	0.9	1.3
15-19	8.4	8.1	9.7	7.7	8.0	7.0
20-24	15.6	16.9	9.7	11.2	12.7	5.5
25-34	25.7	25.7	25.8	19.9	19.9	19.7
35-44	18.4	16.9	25.8	19.1	17.2	25.0
45-54	8.4	8.9	6.5	16.6	15.8	19.7
55-64	8.9	8.1	12.9	13.4	13.1	14.4
65-74	8.9	10.8	0.0	7.2	7.6	5.3
75 and older	5.0	4.7	6.5	3.9	5.4	2.3

Figure 11 illustrates the distribution by type of accidental death. Motor vehicle accidents accounted for 53 percent of the accidental fatalities. Falls accounted for 12 percent and "aircraft and space transport," 6 percent.

Figure 12 shows the distribution of accidents by district of occurrence. Over 58 percent of these deaths occurred along the Wasatch Front in Districts 2N, 2S, and 3. As over 80 percent of the State's population reside in these districts, it appears that the proportion of accidents that occurred there is less than expected, given the existing population distribution.

Figure 13 illustrates the 355 motor vehicle fatalities by type of accident. Thirty-three percent of the fatalities resulted from a collision with another vehicle. Noncollision due to loss of vehicular control resulted in the death of 28 percent, and 20 percent were pedestrians.

Also shown in Figure 13 is the distribution of motor vehicle fatalities by type of victim. About one-third (37 percent) of all persons killed in motor vehicle accidents were drivers. Passengers comprised another one-fourth (27 percent) of the fatalities; pedestrians, one-fifth; and motorcyclists, less than one-tenth (8 percent).

The National Safety Council classifies accidental deaths according to activity or place of accident. Table 46 reflects this classification.

FIGURE II. ACCIDENT FATALITIES OCCURRING IN UTAH BY TYPE, 1979

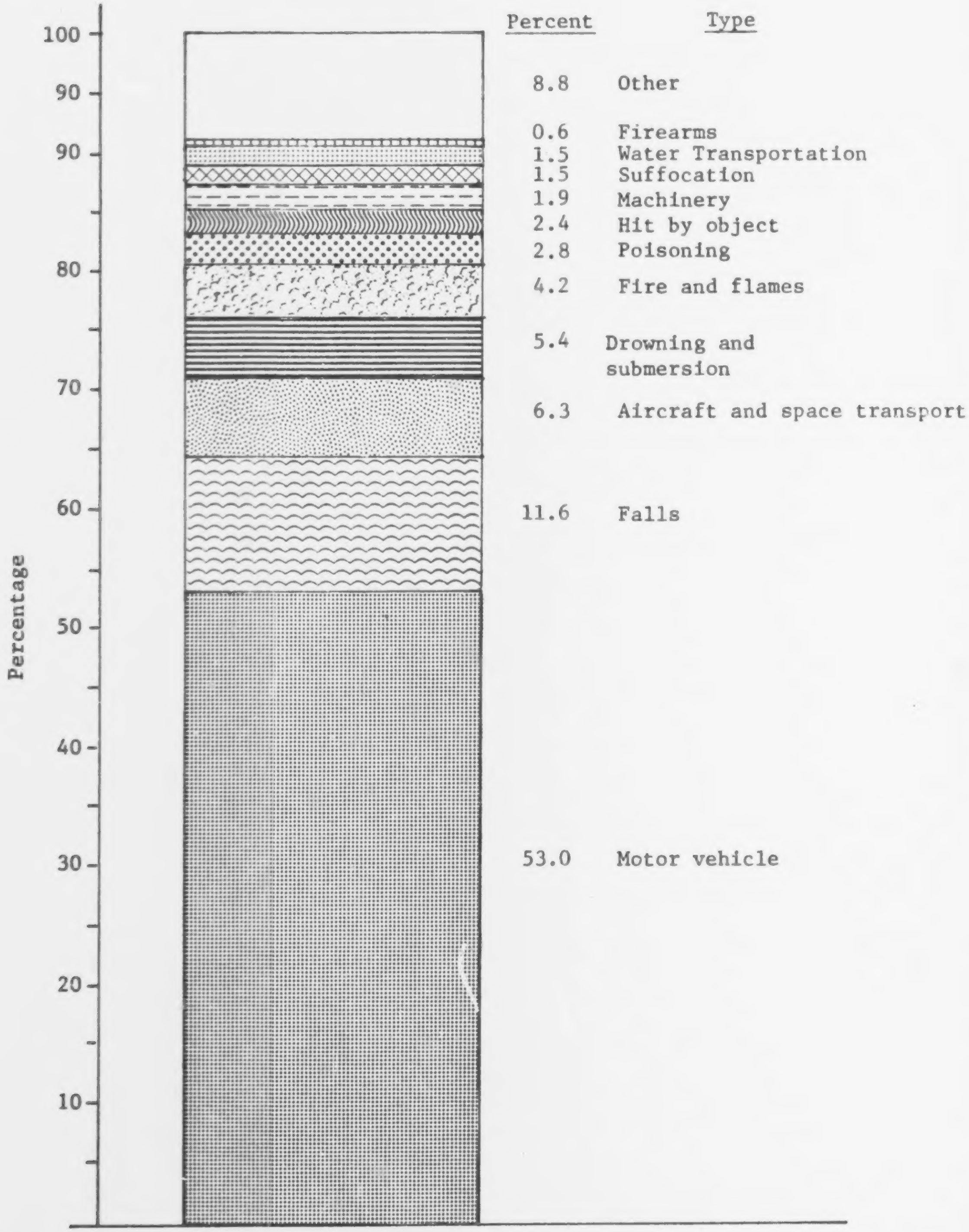


FIGURE 12. DEATHS OCCURRING IN UTAH FROM ACCIDENTS BY PLACE WHERE ACCIDENT OCCURRED, 1979

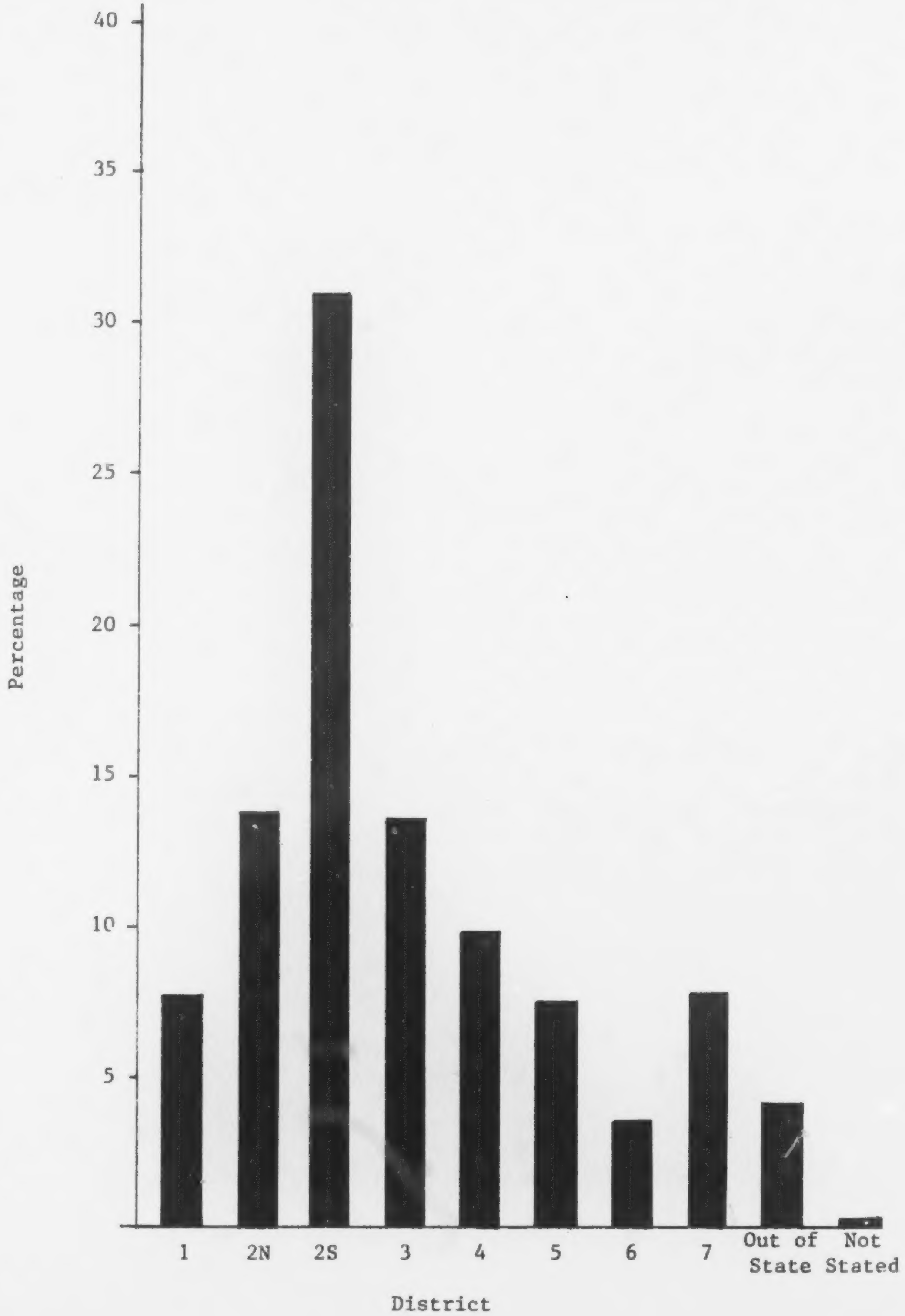
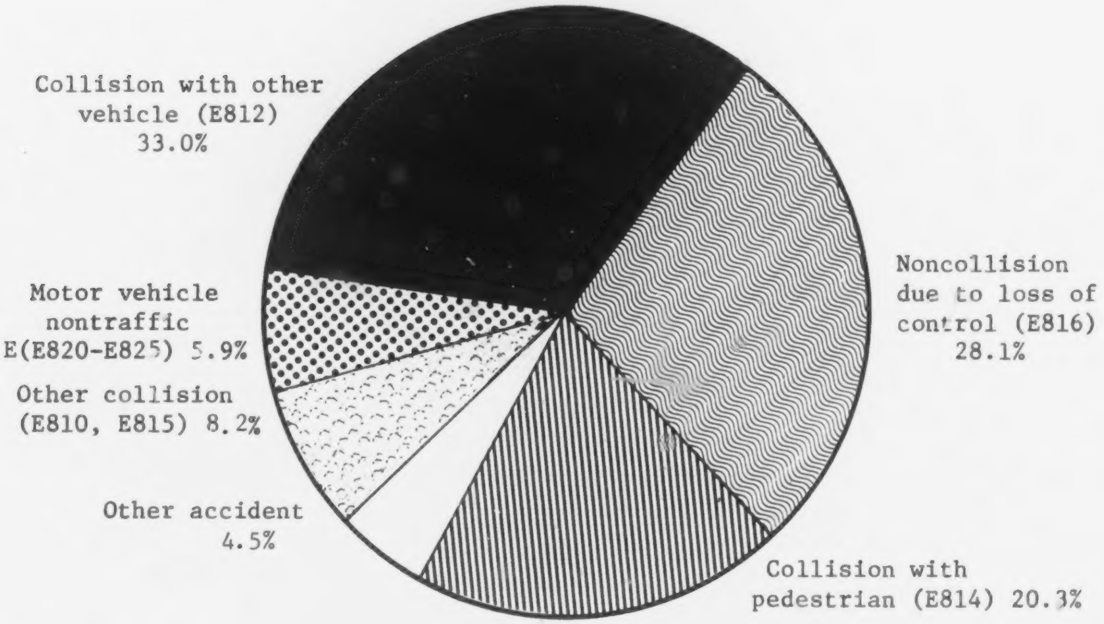
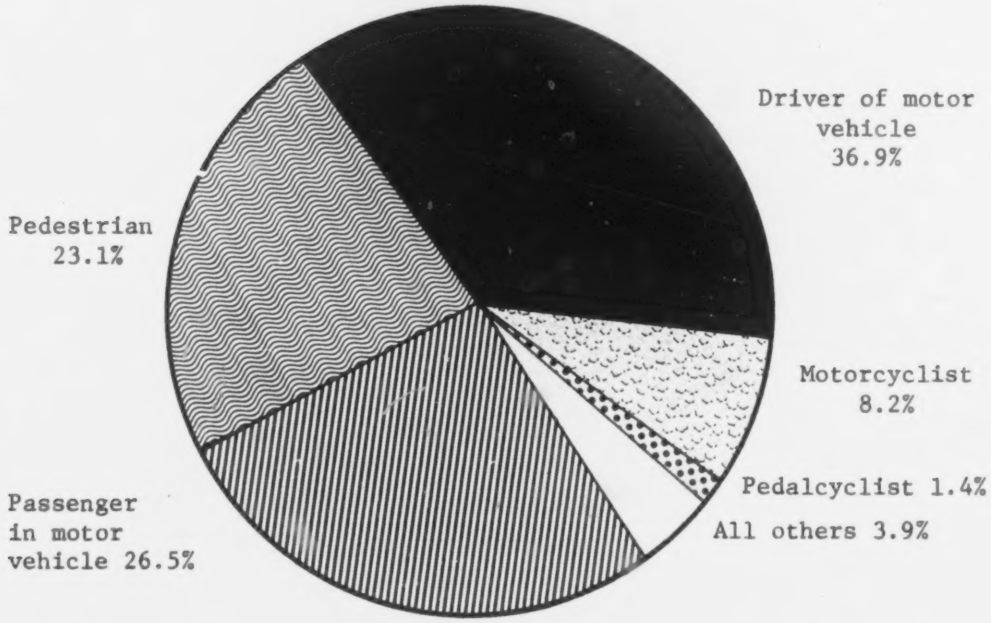


FIGURE 13. MOTOR VEHICLE ACCIDENTS OCCURRING IN UTAH, 1979

Type of Accident



Person Deceased



Fourteen percent of all accidents occurred at home. Thirty-seven percent (36) of the home accident fatalities were to persons age 65 and older.

TABLE 46

ACCIDENTAL DEATHS BY ACTIVITY OR PLACE (NUMBER AND RATE): UTAH, 1979

Activity or Place of Accident	Number	Rate per 100,000 Population
Total	670	49.0
Motor vehicle[1]	355	26.0
Work	83	6.1
Home	97	7.1
Public nonmotor vehicle	308	22.5

[1] Includes 22 work and 8 home motor vehicle deaths.

The use of firearms or explosives resulted in the death of 167 Utah residents in 1979; of these, 142 were men and 25 were women (Table A-51). Suicides accounted for 72 percent of the firearm deaths; assaults, 21 percent; and accidents, 3 percent. Four percent could not be determined whether accidentally or purposely inflicted.

Table 47 also summarizes deaths caused by firearms or explosives since 1968. The total number of deaths due to this cause increased by 42 over 1968 and increased 3 from 1978. The number of accidental deaths was the lowest since 1968. The number of suicidal deaths increased by 11 from 1978 and was the highest number of suicidal deaths due to firearms ever reported in Utah. The number of deaths due to assault with firearms decreased by 1 from 1978.

Eighty-four Utah residents died as a result of poisoning (Table 48). Males accounted for 57 percent of these deaths; females, 43 percent. Forty-eight percent of the poisoning deaths were suicides.

TABLE 47

VIOLENT DEATHS TO RESIDENTS DUE TO FIREARM AND EXPLOSIVE MATERIALS BY TYPE, SEX, AND YEAR: UTAH, 1968-1979

Type of Death and Sex of Deceased	Violent Deaths to Residents by Year											
	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968
Total violent deaths due to firearm missiles and explosive materials (E922-E985)	167	164	146	152	148	130	139	141	130	137	102	125
Male	142	148	130	126	124	105	113	115	100	113	89	105
Female	25	16	16	26	24	25	26	26	30	24	13	20
Accident (E922-E923	5	12	12	13	22	14	20	23	22	27	25	20
Male	4	11	9	13	16	13	19	20	21	22	22	20
Female	1	1	3	. .	6	1	1	3	1	5	3	. .
Suicide and self-inflicted injury (E955)	120	109	106	98	101	77	85	83	81	83	56	76
Male	107	101	98	80	90	63	68	70	62	72	49	69
Female	13	8	8	18	11	14	17	13	19	11	7	7
Assault (E965)	35	36	26	37	17	30	21	28	17	22	18	24
Male	25	29	21	30	12	22	13	19	8	14	15	12
Female	10	7	5	7	5	8	8	9	9	8	3	12
Undetermined whether accidentally or purposely inflicted (E985)	7	7	2	4	8	9	13	7	10	5	3	5
Male	6	7	2	3	6	7	13	6	9	5	3	4
Female	1	. .	. .	1	2	2	. .	1	1	. .	. .	1

TABLE 48

DEATHS TO RESIDENTS DUE TO POISONING BY TYPE AND YEAR: UTAH, 1968-1979

I.C.D.A. Code Ninth Revision	Deaths Due to Poisoning by Year											
	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968
Total	84	85	75	65	73	84	63	60	50	75	58	50
Accident	18	29	13	16	23	25	19	18	18	22	14	11
Drugs and medicants (E850-E859)	6	7	5	4	5	9	10	6	7	9	6	3
Other solid or liquid substances (E860-E869)	12	8	5	3	3	5	5	7	5	4	2	1
Gases and vapors (E870-E877)	. .	14	3	9	15	11	4	5	6	9	6	7
Suicide	40	43	53	41	41	48	39	31	28	49	43	35
Solid or liquid substances (E950)	22	25	35	22	24	33	26	19	17	30	23	18
Other gases (E952)	18	18	18	19	17	15	13	12	11	19	20	17
Undetermined whether accidentally or purposely inflicted	26	13	9	8	9	11	5	11	4	4	3	4
Solid or liquid substances (E980)	19	10	9	6	7	8	4	9	4	3	2	4
Other gases (E982)	7	3	. .	2	2	3	1	2	. .	1	1	. .

REFERENCE TABLES

TABLE A-1

LIVE BIRTHS BY COUNTY OF OCCURRENCE, SEX, ATTENDANT AND HOSPITAL DELIVERY: UTAH, 1979

County of Occurrence	Live Births by Sex, Attendant and Hospital Delivery						
	Total	Male	Female	Sex Unknown	Attended by Physician	Attended by Midwife	Delivered at Hospital
Total	42,104	21,668	20,435	1	40,950	230	41,540
District 1	2,735	1,398	1,337	. .	2,708	4	2,702
Box Elder	731	359	372	. .	720	2	716
Cache	2,004	1,039	965	. .	1,988	2	1,986
Rich	. .	. .	. .	. .	. .	. .	. .
District 2N	7,747	3,947	3,799	1	7,341	30	7,683
Davis	2,814	1,445	1,369	. .	2,429	18	2,776
Morgan	. .	. .	. .	. .	. .	. .	. .
Weber	4,933	2,502	2,430	1	4,912	12	4,907
District 2S	17,960	9,228	8,732	. .	17,607	49	17,776
Salt Lake	17,755	9,126	8,629	. .	17,466	49	17,575
Tooele	205	102	103	. .	141	. .	201
Districe 3	8,365	4,305	4,060	. .	8,239	11	8,279
Summit	27	15	12	. .	26	1	25
Utah	8,083	4,153	3,930	. .	7,958	10	8,000
Wasatch	255	137	118	. .	255	. .	254
District 4	1,087	584	503	. .	1,056	1	1,075
Juab	50	32	18	. .	25	1	49
Millard	205	120	85	. .	203	. .	203
Piute	. .	. .	. .	. .	. .	. .	. .
Sanpete	396	205	191	. .	393	. .	392
Sevier	436	227	209	. .	435	. .	431
Wayne	. .	. .	. .	. .	. .	. .	. .
District 5	1,928	1,013	915	. .	1,772	135	1,769
Beaver	144	68	76	. .	144	. .	144
Garfield	84	37	47	. .	84	. .	84
Iron	542	283	259	. .	535	. .	535
Kane	96	52	44	. .	96	. .	96
Washington	1,062	573	489	. .	913	135	910
District 6	914	468	446	. .	876	. .	904
Daggett	. .	. .	. .	. .	. .	. .	. .
Duchesne	371	203	168	. .	337	. .	367
Uintah	543	265	278	. .	539	. .	537
District 7	1,368	725	643	. .	1,351	. .	1,352
Carbon	794	423	371	. .	787	. .	793
Emery	6	4	2	. .	. .	. .	. .
Grand	233	113	120	. .	233	. .	233
San Juan	335	185	150	. .	331	. .	326

TABLE A-2

LIVE BIRTHS BY SEX, SINGLE AND MULTIPLE, BIRTH ORDER AND RESIDENCE OF MOTHER: UTAH, 1979

Residence of Mother	Total Live Births	Live Births by Sex		Single and Multiple Births		Live Births by Birth Order						
		Male	Female	Single	Multiple	First	Second	Third	Fourth	Fifth	Sixth & Higher	Not Stated
Total	41,078	21,113	19,965	40,242	836	13,144	10,568	7,282	4,741	2,580	2,720	43
District 1	2,611	1,324	1,287	2,544	67	809	639	491	315	159	197	1
Box Elder	877	425	452	857	20	238	220	174	117	61	67	. .
Cache	1,670	863	807	1,627	43	556	402	303	189	91	128	1
Rich	64	36	28	60	4	15	17	14	9	7	2	. .
District 2N	7,646	3,914	3,732	7,517	129	2,362	2,086	1,370	866	482	476	4
Davis	3,946	2,017	1,929	3,892	54	1,139	1,015	716	484	301	288	3
Morgan	113	63	50	113	. .	17	26	31	15	9	15	. .
Weber	3,587	1,834	1,753	3,512	75	1,206	1,045	623	367	172	173	1
District 2S	17,145	8,814	8,331	16,774	371	5,641	4,612	3,072	1,965	967	866	22
Salt Lake	16,488	8,454	8,034	16,122	366	5,462	4,419	2,939	1,881	933	833	21
Tooele	657	360	297	652	5	179	193	133	84	34	33	1
District 3	8,295	4,245	4,050	8,118	177	2,891	1,949	1,322	877	560	690	6
Summit	218	115	103	214	4	74	53	44	26	8	13	. .
Utah	7,861	4,019	3,842	7,696	165	2,750	1,851	1,244	825	531	654	6
Wasatch	216	111	105	208	8	67	45	34	26	21	23	. .
District 4	1,259	671	588	1,233	26	284	267	275	206	102	123	2
Juab	162	88	74	155	7	34	35	41	26	10	16	. .
Millard	233	130	103	229	4	50	40	53	43	17	30	. .
Piute	22	10	12	22	. .	9	7	2	3	1	. .	. .
Sanpete	372	196	176	366	6	89	76	74	57	34	41	1
Sevier	424	223	201	415	9	92	96	96	68	37	34	1
Wayne	46	24	22	46	. .	10	13	9	9	3	2	. .
District 5	1,554	812	742	1,521	33	423	335	282	212	135	166	1
Beaver	131	65	66	125	6	31	27	26	16	20	11	. .
Garfield	87	40	47	84	3	19	22	19	12	5	10	. .
Iron	493	255	238	483	10	155	110	86	70	36	36	. .
Kane	97	48	49	97	. .	21	24	23	16	7	6	. .
Washington	746	404	342	732	14	197	152	128	98	67	103	1
District 6	1,038	531	507	1,021	17	277	266	176	139	79	97	4
Daggett	17	5	12	17	. .	5	5	1	1	2	3	. .
Duchesne	402	229	173	392	10	98	94	76	62	32	39	1
Uintah	619	297	322	612	7	174	167	99	76	45	55	3
District 7	1,530	802	728	1,514	16	457	414	294	161	96	105	3
Carbon	585	309	276	579	6	196	177	118	54	22	17	1
Emery	385	215	170	379	6	97	98	92	43	25	29	1
Grand	198	93	105	198	. .	63	64	29	14	13	15	. .
San Juan	362	185	177	358	4	101	75	55	50	36	44	1

TABLE A-3

LIVE BIRTHS BY RESIDENCE OF MOTHER AND RACE OF CHILD: UTAH, 1979

Residence of Mother	Total Live Births	Live Births by Race				
		White	Black	Indian	Other Nonwhite	Race Not Stated
Total	41,078	39,599	232	568	638	41
District 1	2,611	2,552	7	22	29	1
Box Elder	877	847	. .	18	12	. .
Cache	1,670	1,641	7	4	17	1
Rich	64	64	. .	. .	. .	. .
District 2N	7,646	7,414	91	42	90	9
Davis	3,946	3,827	34	25	56	4
Morgan	113	111	. .	1	. .	1
Weber	3,587	3,476	57	16	34	4
District 2S	17,145	16,455	123	163	385	19
Salt Lake	16,488	15,822	117	159	373	17
Tooele	657	633	6	4	12	2
District 3	8,295	8,121	4	60	105	5
Summit	218	214	2	. .	1	1
Utah Co.	7,861	7,693	2	58	104	4
Wasatch	216	214	. .	2	. .	. .
District 4	1,259	1,228	1	19	9	2
Juab	162	159	1	2	. .	. .
Millard	233	221	. .	4	8	. .
Piute	22	22	. .	. .	. .	. .
Sanpete	372	367	. .	4	1	. .
Sevier	424	413	. .	9	. .	2
Wayne	46	46	. .	. .	. .	. .
District 5	1,554	1,510	4	25	11	4
Beaver	131	127	. .	2	2	. .
Garfield	87	84	. .	2	1	. .
Iron	493	474	. .	14	4	1
Kane	97	95	. .	. .	2	. .
Washington	746	730	4	7	2	3
District 6	1,038	963	. .	73	2	. .
Daggett	17	17	. .	. .	. .	. .
Duchesne	402	382	. .	20	. .	. .
Uintah	619	564	. .	53	2	. .
District 7	1,530	1,356	2	164	7	1
Carbon	585	571	1	11	2	. .
Emery	385	378	. .	5	2	. .
Grand	198	192	. .	5	1	. .
San Juan	362	215	1	143	2	1

TABLE A-4

LIVE BIRTHS BY MONTH OF OCCURRENCE AND RESIDENCE OF MOTHER: UTAH, 1979

Residence of Mother	Total Live Births	Live Births by Month of Occurrence											
		January	February	March	April	May	June	July	August	September	October	November	December
Total	41,078	3,193	3,166	3,580	3,405	3,591	3,520	3,607	3,467	3,406	3,552	3,246	3,345
District 1	2,611	199	214	221	215	228	218	232	199	215	222	208	240
Box Elder	877	74	76	78	71	81	63	71	73	74	70	72	74
Cache	1,670	120	134	136	139	143	152	155	118	137	148	129	159
Rich	64	5	4	7	5	4	3	6	8	4	4	7	7
District 2N	7,646	596	585	696	631	672	650	633	648	635	622	639	639
Davis	3,946	316	307	336	324	342	324	317	361	346	325	320	328
Morgan	113	9	10	15	4	13	8	3	13	10	6	13	9
Weber	3,587	271	268	345	303	317	318	313	274	279	291	306	302
District 2W	17,145	1,323	1,269	1,480	1,431	1,514	1,473	1,537	1,476	1,394	1,512	1,353	1,383
Salt Lake	16,488	1,263	1,211	1,424	1,389	1,451	1,422	1,490	1,426	1,338	1,452	1,292	1,330
Tooele	657	60	58	56	42	63	51	47	50	56	60	61	53
District 3	8,295	681	680	733	691	748	721	721	664	674	729	619	634
Summit	218	15	19	9	26	19	20	21	17	21	7	24	20
Utah Co.	7,861	647	643	707	643	700	687	688	628	643	705	577	593
Wasatch	216	19	18	17	22	29	14	12	19	10	17	18	21
District 4	1,259	90	106	120	95	110	99	104	111	115	107	93	109
Juab	162	7	14	14	17	16	16	7	18	17	9	13	14
Millard	233	22	23	25	15	15	25	10	19	18	21	18	22
Piute	22	1	4	2	. .	2	1	4	1	1	2	. .	4
Sanpete	372	17	33	34	27	33	31	40	33	43	33	22	26
Sevier	424	40	29	39	32	41	24	39	34	31	37	38	40
Wayne	46	3	3	6	4	3	2	4	6	5	5	2	3
District 5	1,554	115	124	132	127	115	145	130	146	141	134	127	118
Beaver	131	13	9	9	10	10	16	9	9	10	10	13	13
Garfield	87	9	7	5	7	2	8	8	9	8	13	5	6
Iron	493	44	35	41	48	37	46	40	43	42	38	42	37
Kane	97	3	11	13	5	2	8	14	13	9	11	2	6
Washington	746	46	62	64	57	64	67	59	72	72	62	65	56
District 6	1,038	72	70	93	91	85	88	111	96	85	88	71	88
Daggett	17	. .	. .	. .	2	2	1	5	. .	3	2	. .	2
Duchesne	402	30	35	36	37	31	36	38	41	28	34	26	30
Uintah	619	42	35	57	52	52	51	68	55	54	52	45	56
District 7	1,530	117	118	105	124	119	126	139	127	147	138	136	134
Carbon	585	45	40	46	52	46	52	45	51	63	56	44	45
Emery	385	22	34	33	33	39	23	44	26	27	36	32	36
Grand	198	20	14	13	14	13	20	13	15	17	13	25	21
San Juan	362	30	30	13	25	21	31	37	35	40	33	35	32

TABLE A-5

LIVE BIRTHS BY RESIDENCE OF MOTHER AND BIRTH WEIGHT OF CHILD: UTAH, 1979

Residence of Mother	Total Live Births	Live Births by Birth Weight of Child (Grams and Pounds)									
		1,000 or less (2 lbs. 3 oz. or less)	1,001-1,500 (2 lbs. 4 oz.-3 lbs. 4 oz.)	1,501-2,000 (3 lbs. 5 oz.-4 lbs. 6 oz.)	2,001-2,500 (4 lbs. 7 oz.-5 lbs. 8 oz.)	2,501-3,000 (5 lbs. 9 oz.-6 lbs. 9 oz.)	3,001-3,500 (6 lbs. 10 oz.-7 lbs. 11 oz.)	3,501-4,000 (7 lbs. 12 oz.-8 lbs. 13 oz.)	4,001-4,500 (8 lbs. 14 oz.-9 lbs. 15 oz.)	4,501 & over (10 lbs. & over)	Not Stated
Total	41,078	130	160	418	1,579	6,571	15,963	12,123	3,451	618	65
District 1	2,611	8	12	27	82	431	1,096	738	180	36	1
Box Elder	877	3	6	11	23	157	350	244	73	9	1
Cache	1,670	4	6	16	56	264	713	482	103	26	. .
Rich	64	1	. .	. .	3	10	33	12	4	1	. .
District 2N	7,646	25	27	72	313	1,263	2,973	2,248	610	106	9
Davis	3,946	13	10	32	136	652	1,509	1,178	346	65	5
Morgan	113	. .	. .	. .	2	24	36	40	9	2	. .
Weber	3,587	12	17	40	175	587	1,428	1,030	255	39	4
District 2S	17,145	51	71	199	716	2,922	6,648	4,856	1,421	234	27
Salt Lake	16,488	50	68	189	695	2,815	6,375	4,667	1,376	227	26
Tooele	657	1	3	10	21	107	273	189	45	7	1
District 3	8,295	30	30	73	263	1,098	3,170	2,643	813	163	12
Summit	218	. .	2	3	12	34	90	55	18	4	. .
Utah Co.	7,861	28	25	68	240	1,030	2,988	2,543	776	151	12
Wasatch	216	2	3	2	11	34	92	45	19	8	. .
District 4	1,259	3	6	13	45	191	474	385	117	21	4
Juab	162	. .	2	2	6	24	61	52	10	4	1
Millard	233	. .	3	3	10	42	80	68	24	2	1
Piute	22	. .	. .	1	2	2	9	7	1	. .	. .
Sanpete	372	1	1	5	11	58	139	108	42	7	. .
Sevier	424	2	. .	2	14	60	156	142	39	7	2
Wayne	46	. .	. .	. .	2	5	29	8	1	1	. .
District 5	1,554	7	5	15	56	228	562	516	132	30	3
Beaver	131	. .	1	2	6	19	43	44	12	3	1
Garfield	87	. .	. .	1	8	12	25	29	9	2	1
Iron	493	2	3	6	12	73	202	152	38	4	1
Kane	97	. .	. .	. .	6	10	33	35	11	2	. .
Washington	746	5	1	6	24	114	259	256	62	19	. .
District 6	1,038	3	5	8	42	182	378	322	79	15	4
Daggett	17	. .	. .	. .	2	2	8	4	. .	1	. .
Duchesne	402	2	2	2	15	66	153	125	31	4	2
Uintah	619	1	3	6	25	114	217	193	48	10	2
District 7	1,530	3	4	11	62	256	662	415	99	13	5
Carbon	585	1	2	7	20	114	252	154	31	2	2
Emery	385	. .	. .	2	14	60	160	107	32	8	2
Grand	198	. .	. .	. .	10	26	78	71	12	1	. .
San Juan	362	2	2	2	18	56	172	83	24	2	1

TABLE A-6

LIVE BIRTHS BY RESIDENCE OF MOTHER AND PRENATAL VISITS: UTAH, 1979

Residence of Mother	Live Births by Prenatal Visits								
	Total	None	1-5	6-9	10-14	15-18	19-26	27+	Not Stated
Total	41,078	169	2,533	11,861	23,376	1,543	247	26	1,323
District 1	2,611	6	104	701	1,668	100	1	. .	31
Box Elder	877	3	49	292	487	30	. .	. .	16
Cache	1,670	3	49	386	1,152	67	1	. .	12
Rich	64	. .	6	23	29	3	. .	. .	3
District 2N	7,646	38	454	2,235	4,101	380	37	. .	401
Davis	3,946	12	195	1,064	2,331	199	26	. .	119
Morgan	113	. .	9	35	52	6	. .	. .	11
Weber	3,587	26	250	1,136	1,718	175	11	. .	271
District 2S	17,145	59	1,147	5,006	9,599	526	101	21	686
Salt Lake	16,488	56	1,099	4,851	9,209	480	93	21	679
Tooele	657	3	48	155	390	46	8	. .	7
District 3	8,295	18	288	1,985	5,650	251	50	4	49
Summit	218	. .	11	74	118	9	. .	. .	6
Utah	7,861	17	266	1,811	5,433	239	50	4	41
Wasatch	216	1	11	100	99	3	. .	. .	2
District 4	1,259	5	65	297	748	109	27	. .	8
Juab	162	. .	5	38	105	9	3	. .	2
Millard	233	1	14	39	154	19	6	. .	. .
Piute	22	. .	1	10	10	1	. .	. .	. .
Sanpete	372	1	20	65	231	40	12	. .	3
Sevier	424	3	20	127	228	37	6	. .	3
Wayne	46	. .	5	18	20	3	. .	. .	. .
District 5	1,554	8	132	557	738	95	18	. .	6
Beaver	131	. .	5	42	74	9	1	. .	. .
Garfield	87	1	8	35	40	2	1	. .	. .
Iron	493	2	21	101	293	60	11	. .	5
Kane	97	1	20	52	22	2	. .	. .	. .
Washington	746	4	78	327	309	22	5	. .	1
District 6	1,038	5	112	329	468	59	9	1	55
Daggett	17	. .	2	7	3	3	. .	. .	2
Duchesne	402	3	37	126	208	17	. .	1	10
Uintah	619	2	73	196	257	39	9	. .	43
District 7	1,530	30	231	751	404	23	4	. .	87
Carbon	585	4	82	341	133	3	2	. .	20
Emery	385	4	63	201	91	6	1	. .	19
Grand	198	1	11	78	94	10	1	. .	3
San Juan	362	21	75	131	86	4	. .	. .	45

TABLE A-7

LIVE BIRTHS BY RESIDENCE OF MOTHER AND MONTH PRENATAL CARE BEGAN: UTAH, 1979

Residence of Mother	Total Live Births	Live Births by Month Prenatal Care Began										
		None	1	2	3	4	5	6	7	8	9	Not Stated
Total	41,078	169	2,945	18,084	11,931	3,632	1,524	790	480	299	96	1,128
District 1	2,611	6	114	1,067	987	235	88	41	34	13	2	24
Box Elder	877	3	45	407	248	86	36	14	19	8	1	10
Cache	1,670	3	64	640	714	140	50	26	15	5	1	12
Rich	64	. .	5	20	25	9	2	1	. .	. .	. .	2
District 2N	7,646	38	547	3,863	2,013	575	231	104	95	44	13	123
Davis	3,946	12	266	1,967	1,095	304	120	54	52	19	7	50
Morgan	113	. .	3	52	35	15	6	. .	. .	1	1	. .
Weber	3,587	26	278	1,844	883	256	105	50	43	24	5	73
District 2S	17,145	59	1,244	6,809	5,321	1,596	674	360	183	122	44	733
Salt Lake	16,488	56	1,191	6,580	5,111	1,517	646	340	171	112	42	722
Tooele	657	3	53	229	210	79	28	20	12	10	2	11
District 3	8,295	18	613	4,416	2,134	597	252	109	68	42	5	41
Summit	218	. .	15	101	59	24	7	3	4	3	. .	2
Utah	7,861	17	593	4,221	2,015	542	239	96	61	35	5	37
Wasatch	216	1	5	94	60	31	6	10	3	4	. .	2
District 4	1,259	5	105	589	313	125	59	32	10	10	. .	11
Juab	162	. .	14	78	46	14	4	. .	1	2	. .	3
Millard	233	1	23	93	59	33	11	4	5	3	. .	1
Piute	22	. .	1	16	2	2	. .	1	. .	. .	. .	. .
Sanpete	372	1	28	158	102	39	26	13	1	1	. .	3
Sevier	424	3	35	224	92	32	15	14	3	3	. .	3
Wayne	46	. .	4	20	12	5	3	. .	. .	1	. .	1
District 5	1,554	8	188	585	383	168	75	49	36	20	7	35
Beaver	131	. .	7	54	37	19	5	3	2	3	. .	1
Garfield	87	1	4	36	24	8	7	5	1	. .	. .	1
Iron	493	2	131	211	79	41	14	7	4	3	. .	1
Kane	97	1	3	34	24	14	6	4	7	2	1	1
Washington	746	4	43	250	219	86	43	30	22	12	6	31
District 6	1,038	5	68	336	280	136	59	42	20	22	10	60
Daggett	17	. .	2	4	5	2	. .	. .	. .	2	. .	2
Duchesne	402	3	23	149	109	51	23	19	8	7	. .	10
Uintah	619	2	43	183	166	83	36	23	12	13	10	48
District 7	1,530	30	66	419	500	200	86	53	34	26	15	101
Carbon	585	4	18	172	227	70	27	17	14	6	5	25
Emery	385	4	21	123	117	47	24	11	9	4	1	24
Grand	198	1	14	62	69	31	11	4	2	1	1	2
San Juan	362	21	13	62	87	52	24	21	9	15	8	50

TABLE A-8

LIVE BIRTHS BY AGE AND RESIDENCE OF MOTHER: UTAH, 1979

Residence of Mother	Total Births	Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not Stated
Total	41,078	28	4,543	15,141	12,408	6,329	2,217	384	25	3
District 1	2,611	1	238	1,000	804	404	141	21	2	. .
Box Elder	877	1	103	306	271	143	45	8	. .	. .
Cache	1,670	. .	126	674	510	251	94	13	2	. .
Rich	64	. .	9	20	23	10	2	. .	. .	. .
District 2N	7,646	5	905	2,707	2,271	1,220	460	72	4	2
Davis	3,946	1	394	1,301	1,232	689	283	42	3	1
Morgan	113	. .	7	33	35	24	10	4	. .	. .
Weber	3,587	4	504	1,373	1,004	507	167	26	1	1
District 2S	17,145	14	1,938	5,986	5,421	2,758	877	147	3	1
Salt Lake	16,488	12	1,841	5,749	5,228	2,668	844	142	3	1
Tooele	657	2	97	237	193	90	33	5	. .	. .
District 3	8,295	7	707	3,579	2,381	1,112	426	76	7	. .
Summit	218	. .	25	67	71	43	10	2	. .	. .
Utah Co.	7,861	6	660	3,433	2,253	1,028	402	72	7	. .
Wasatch	216	1	22	79	57	41	14	2	. .	. .
District 4	1,259	. .	157	396	389	212	89	14	2	. .
Juab	162	. .	27	50	48	28	9	. .	. .	. .
Millard	233	. .	20	71	87	35	15	5	. .	. .
Piute	22	. .	3	8	6	4	1	. .	. .	. .
Sanpete	372	. .	46	117	104	69	31	4	1	. .
Sevier	424	. .	60	132	126	69	31	5	1	. .
Wayne	46	. .	1	18	18	7	2	. .	. .	. .
District 5	1,554	. .	190	528	448	262	100	23	3	. .
Beaver	131	. .	22	41	42	20	4	2	. .	. .
Garfield	87	. .	9	26	28	15	7	2	. .	. .
Iron	493	. .	55	184	138	85	28	3	. .	. .
Kane	97	. .	12	25	35	19	4	1	1	. .
Washington	746	. .	92	252	205	123	57	15	2	. .
District 6	1,038	. .	141	390	275	157	58	15	2	. .
Daggett	17	. .	1	5	7	2	1	1	. .	. .
Duchesne	402	. .	63	142	100	65	24	8	. .	. .
Uintah	619	. .	77	243	168	90	33	6	2	. .
District 7	1,530	1	267	555	419	204	66	16	2	. .
Carbon	585	. .	103	239	161	67	10	5	. .	. .
Emery	385	. .	69	128	112	53	19	3	1	. .
Grand	198	1	34	72	47	27	12	4	1	. .
San Juan	362	. .	61	116	99	57	25	4	. .	. .

TABLE A-9

LIVE BIRTHS BY AGE OF MOTHER BY RACE AND BIRTH ORDER OF CHILD: UTAH, 1979

Race and Birth Order of Child	Total	Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Not Stated
Total all races	41,078	28	4,543	15,141	12,408	6,329	2,217	384	25	3
1st child	13,144	28	3,607	6,936	2,035	450	81	6	. .	1
2nd child	10,568	. .	810	5,550	3,308	765	117	17	. .	1
3rd child	7,282	. .	106	2,056	3,629	1,230	234	26	1	. .
4th child	4,741	. .	8	501	2,332	1,523	339	36	2	. .
5th child	2,580	. .	. .	70	777	1,262	410	57	4	. .
6th and over	2,720	. .	. .	11	318	1,096	1,035	242	18	. .
Not stated	43	. .	12	17	9	3	1	. .	. .	1
White	39,599	28	4,328	14,616	11,959	6,123	2,149	369	24	3
1st child	12,600	28	3,441	6,712	1,914	421	77	6	. .	1
2nd child	10,148	. .	767	5,358	3,177	717	111	17	. .	1
3rd child	7,080	. .	103	1,990	3,540	1,200	221	25	1	. .
4th child	4,599	. .	8	470	2,267	1,487	330	35	2	. .
5th child	2,507	. .	. .	64	755	1,232	398	54	4	. .
6th and over	2,635	. .	. .	9	301	1,064	1,012	232	17	. .
Not stated	30	. .	9	13	5	2	. .	. .	. .	1
Black	232	. .	52	92	59	24	5			
1st child	101	. .	40	43	14	3	1	. .	. .	. .
2nd child	74	. .	12	33	20	9	. .	. .	. .	. .
3rd child	31	. .	. .	9	17	5	. .	. .	. .	. .
4th child	16	. .	. .	5	5	4	2	. .	. .	. .
5th child	5	. .	. .	2	1	2	. .	. .	. .	. .
6th and over	5	. .	. .	. .	2	1	2	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Indian	568	. .	108	229	137	66	22	5	1	. .
1st child	200	. .	88	82	26	4	. .	. .	. .	. .
2nd child	148	. .	16	89	35	8	. .	. .	. .	. .
3rd child	82	. .	3	34	32	10	3	. .	. .	. .
4th child	58	. .	. .	16	26	14	2	. .	. .	. .
5th child	29	. .	. .	4	8	11	4	2	. .	. .
6th child	48	. .	. .	2	10	19	13	3	1	. .
Not stated	3	. .	1	2	. .	. .	. .	. .	. .	. .
Other nonwhite	638	. .	47	188	242	114	37	10	. .	. .
1st child	230	. .	33	94	79	21	3	. .	. .	. .
2nd child	190	. .	14	64	76	31	5	. .	. .	. .
3rd child	86	. .	. .	22	38	15	10	1	. .	. .
4th child	63	. .	. .	8	31	18	5	1	. .	. .
5th child	36	. .	. .	. .	12	17	6	1	. .	. .
6th child	31	. .	. .	. .	5	12	7	7	. .	. .
Not stated	2	. .	. .	. .	1	. .	1	. .	. .	. .
Not stated	41	. .	8	16	11	2	4	. .	. .	. .
1st child	13	. .	5	5	2	1	. .	. .	. .	. .
2nd child	8	. .	1	6	. .	. .	1	. .	. .	. .
3rd child	3	. .	. .	1	2	. .	. .	. .	. .	. .
4th child	5	. .	. .	2	3	. .	. .	. .	. .	. .
5th child	3	. .	. .	. .	1	. .	2	. .	. .	. .
6th and over	1	. .	. .	. .	. .	. .	1	. .	. .	. .
Not stated	8	. .	2	2	3	1	. .	. .	. .	. .

TABLE A-10

LIVE BIRTHS BY AGE OF MOTHER, RACE OF CHILD, AND MONTH PRENATAL CARE BEGAN: UTAH, 1979

Age of Mother Race of Child	Total Live Births	Live Births by Month Prenatal Care Began										
		None	1	2	3	4	5	6	7	8	9	Not Stated
All ages, races	41,078	169	2,945	18,084	11,931	3,632	1,524	790	480	299	96	1,128
Under 15	28	1	. .	9	6	3	4	3	. .	. .	. .	2
15-19	4,543	38	285	1,489	1,246	621	319	171	110	58	27	179
20-24	15,141	56	1,169	6,916	4,298	1,226	484	252	164	120	30	426
25-29	12,408	36	912	5,740	3,669	994	366	201	115	65	20	290
30-34	6,329	21	422	2,847	1,921	532	219	102	58	40	10	157
35-39	2,217	12	132	932	679	214	102	45	24	11	8	58
40-44	384	5	25	145	105	37	25	14	9	4	1	14
45 and over	25	. .	. .	6	7	3	5	2	. .	1	. .	1
Not stated	3	. .	. .	. .	. .	2	. .	. .	. .	. .	. .	1
White	39,599	117	2,826	17,699	11,575	3,455	1,405	730	444	259	77	1,012
Under 15	28	1	. .	9	6	3	4	3	. .	. .	. .	2
15-19	4,328	27	265	1,452	1,200	593	293	164	104	51	23	156
20-24	14,616	42	1,126	6,779	4,168	1,158	450	232	152	107	23	379
25-29	11,959	22	883	5,609	3,560	946	327	182	104	53	15	258
30-34	6,123	14	402	2,786	1,873	510	203	90	55	33	7	150
35-39	2,149	8	126	916	659	206	99	43	22	10	8	52
40-44	369	3	24	142	102	35	24	14	7	4	1	13
45 and over	24	. .	. .	6	7	2	5	2	. .	1	. .	1
Not stated	3	. .	. .	. .	. .	2	. .	. .	. .	. .	. .	1
Black	232	11	20	64	65	31	15	7	4	5	. .	10
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	52	5	6	8	10	9	5	2	2	3	. .	2
20-24	92	2	6	26	27	14	5	3	2	1	. .	6
25-29	59	2	4	19	23	5	3	. .	. .	1	. .	2
30-34	24	2	4	9	4	2	1	2	. .	. .	. .	. .
35-39	5	. .	. .	2	1	1	1	. .	. .	. .	. .	. .
40-44	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Indian	568	31	51	117	122	61	44	26	16	21	13	66
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	108	5	10	20	21	11	12	5	4	4	1	15
20-24	229	8	22	49	52	27	11	9	7	8	7	29
25-29	137	9	10	35	29	12	13	6	2	4	3	14
30-34	66	3	6	11	15	6	8	6	2	4	2	3
35-39	22	4	3	2	4	3	. .	. .	1	1	. .	4
40-44	5	2	. .	. .	1	1	. .	. .	. .	. .	. .	1
45 and over	1	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Other nonwhite	638	10	48	194	160	79	55	24	15	14	5	34
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	47	1	4	8	14	7	5	. .	. .	. .	2	6
20-24	188	4	15	58	49	24	18	5	2	4	. .	9
25-29	242	3	15	73	54	29	23	13	9	7	2	14
30-34	114	2	10	40	28	14	7	4	1	3	1	4
35-39	37	. .	3	12	13	4	1	2	1	. .	. .	1
40-44	10	. .	1	3	2	1	1	. .	2	. .	. .	. .
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Race not stated	41	. .	. .	10	9	6	5	3	1	. .	1	6
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	8	. .	. .	1	1	1	4	. .	. .	. .	1	. .
20-24	16	. .	. .	4	2	3	. .	3	1	. .	. .	3
25-29	11	. .	. .	4	3	2	. .	. .	. .	. .	. .	2
30-34	2	. .	. .	1	1	. .	. .	. .	. .	. .	. .	. .
35-39	4	. .	. .	. .	2	. .	1	. .	. .	. .	. .	1
40-44	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .

TABLE A-11

LIVE BIRTHS BY AGE OF MOTHER, RACE OF CHILD, AND PRENATAL VISITS: UTAH, 1979

Race and Age of Mother	Total Live Births	Live Births by Number of Prenatal Visits							
		None	1-5	6-9	10-14	15-18	19-27	27+	Not Stated
Total Races, Ages	41,078	169	2,533	11,861	23,376	1,543	247	26	1,323
Under 15	28	1	5	6	14	1	. .	. .	1
15-19	4,543	38	512	1,443	2,144	180	32	. .	194
20-24	15,141	56	832	4,254	8,875	570	75	7	472
25-29	12,408	36	651	3,554	7,252	464	77	12	362
30-34	6,329	21	369	1,783	3,677	234	41	6	198
35-39	2,217	12	131	687	1,212	81	19	. .	75
40-44	384	5	30	125	190	12	3	1	18
45 and over	25	. .	3	7	12	1	. .	. .	2
Not stated	3	. .	. .	2	. .	. .	. .	. .	1
White	39,599	117	2,312	11,448	22,732	1,514	239	25	1,212
Under 15	28	1	5	6	14	1	. .	. .	1
15-19	4,328	27	475	1,388	2,061	175	31	. .	171
20-24	14,616	42	756	4,105	8,641	560	74	7	431
25-29	11,959	22	583	3,419	7,063	453	74	12	333
30-34	6,123	14	337	1,728	3,579	232	39	5	189
35-39	2,149	8	125	672	1,178	81	18	. .	67
40-44	369	3	28	121	185	11	3	1	17
45 and over	24	. .	3	7	11	1	. .	. .	2
Not stated	3	. .	. .	2	. .	. .	. .	. .	1
Black	232	11	22	62	114	6	6	. .	11
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	52	5	10	11	22	. .	. .	. .	4
20-24	92	2	6	29	48	2	1	. .	4
25-29	59	2	5	14	30	4	2	. .	2
30-34	24	2	1	7	11	. .	2	. .	1
35-39	5	. .	. .	1	3	. .	1	. .	. .
40-44	. .	. .	. .	. .	. .	. .	. .	. .	. .
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .		. .	. .	. .	. .	. .	. .
Indian	568	31	108	151	208	8	2	1	59
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	108	5	17	30	38	3	1	. .	14
20-24	229	8	46	59	90	3	. .	. .	23
25-29	137	9	25	38	50	2	1	. .	12
30-34	66	3	18	17	23	. .	. .	1	4
35-39	22	4	2	5	6	. .	. .	. .	5
40-44	5	2	. .	2	. .	. .	. .	. .	1
45 and over	1	. .	. .	. .	1	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .
Other nonwhite	638	10	83	190	306	14	. .	. .	35
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	47	1	8	12	19	2	. .	. .	5
20-24	188	4	20	54	94	5	. .	. .	11
25-29	242	3	38	82	102	4	. .	. .	13
30-34	114	2	13	31	62	2	. .	. .	4
35-39	37	. .	2	9	24	. .	. .	. .	2
40-44	10	. .	2	2	5	1	. .	. .	. .
45 and over	. .	. .		. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .
Race not stated	41	. .	8	10	16	1	. .	. .	6
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	8	. .	2	2	4	. .	. .	. .	. .
20-24	16	. .	4	7	2	. .	. .	. .	3
25-29	11	. .	. .	1	7	1	. .	. .	2
30-34	2	. .	. .	. .	2	. .	. .	. .	. .
35-39	4	. .	2	. .	1	. .	. .	. .	1
40-44	. .	. .	. .	. .	. .	. .	. .	. .	. .
45 and over	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .

TABLE A-12

LIVE BIRTHS BY BIRTH WEIGHT, SEX, AND RACE OF CHILD: UTAH, 1979

Birth Weight of Child in Grams and Pounds	Live Births by Race and Sex of Child																	
	Total			White			Black			Indian			Other Nonwhite			Not Stated		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Total	41,078	19,965	21,113	39,599	19,206	20,393	232	120	112	568	304	264	638	314	324	41	21	20
1,000 or less (2 lbs. 3 oz. or less)	130	76	54	127	73	54	. .	. .	. .	. .	. .	. .	2	2	. .	1	1	. .
1,001-1,500 (2 lbs. 4 oz.-3 lbs. 4 oz.)	160	75	85	153	69	84	2	1	1	2	2	. .	3	3	. .	. .	. .	. .
1,501-2,000 (3 lbs. 5 oz.-4 lbs. 6 oz.	418	182	236	402	175	227	6	2	4	6	4	2	4	1	3	. .	. .	. .
2,001-2,500 (4 lbs. 7 oz.-5 lbs. 8 oz.)	1,579	843	736	1,507	811	696	18	9	9	29	12	17	25	11	14	. .	. .	. .
2,501-3,000 (5 lbs. 9 oz.-6 lbs. 9 oz.)	6,571	3,726	2,845	6,260	3,533	2,727	69	41	28	104	68	36	130	79	51	8	5	3
3,001-3,500 (6 lbs. 10 oz.-7 lbs. 11 oz.)	15,963	8,363	7,600	15,363	8,057	7,306	95	48	47	235	131	104	254	120	134	16	7	9
3,501-4,000 (7 lbs. 12 oz.-8 lbs. 13 oz.)	12,123	5,246	6,877	11,767	5,080	6,687	32	15	17	144	68	76	169	77	92	11	6	5
4,001-4,500 (8 lbs. 14 oz.-9 lbs. 15 oz.)	3,451	1,246	2,205	3,367	1,210	2,157	7	4	3	37	15	22	38	16	22	2	1	1
4,501 & over (10 lbs. & over)	618	186	432	595	177	418	1	. .	1	9	4	5	11	4	7	2	1	1
Not stated	65	22	43	58	21	37	2	. .	2	2	. .	2	2	1	1	1	. .	1

TABLE A-13

LIVE BIRTHS BY BIRTH WEIGHT AND WEEKS GESTATION: UTAH, 1979

Weight of Child at Birth	Total Births	Live Births by Gestation Period in Weeks													
		Under 20	20-27	28-35	36	37	38	39	40	41	42	43	44	45+	Not Stated
Total	41,078	1	95	1,121	718	1,382	2,965	6,638	9,566	7,816	4,188	2,035	1,115	1,376	2,062
1,000 or less (2 lbs. 3 oz. or less)	130	. .	68	38	2	. .	2	. .	. .	. .	. .	. .	. .	. .	20
1,001-1,500 (2 lbs. 4 oz.-3 lbs. 4 oz.)	160	. .	11	116	8	5	2	1	1	. .	. .	. .	. .	. .	16
1,501-2,000 (3 lbs. 5 oz.-4 lbs. 6 oz.	418	1	5	224	19	28	23	25	15	11	8	4	2	5	48
2,001-2,500 (4 lbs. 7 oz.-5 lbs. 8 oz.)	1,579	. .	3	288	163	163	197	228	149	116	58	44	22	37	111
2,501-3,000 (5 lbs. 9 oz.-6 lbs. 9 oz.)	6,571	. .	4	210	247	527	825	1,241	1,299	869	405	241	142	200	361
3,001-3,500 (6 lbs. 10 oz.-7 lbs. 11 oz.)	15,963	. .	1	140	178	455	1,288	3,029	4,006	2,941	1,511	747	416	501	750
3,501-4,000 (7 lbs. 12 oz.-8 lbs. 13 oz.)	12,123	. .	. .	75	76	162	513	1,721	3,152	2,810	1,538	705	380	444	547
4,001-4,500 (8 lbs. 14 oz.-9 lbs. 15 oz.)	3,451	. .	. .	14	15	33	102	342	798	911	560	231	137	156	152
4,501 & over (10 lbs. & over)	618	. .	. .	9	6	8	11	49	140	153	103	59	15	31	34
Not stated	65	. .	3	7	4	1	2	2	6	5	5	4	1	2	23

TABLE A-14

LIVE BIRTHS BY AGE AND EDUCATION OF MOTHER AND NUMBER OF PREVIOUS LIVE BIRTHS: UTAH, 1979

Previous Live Births and Age of Mother	Births by Education of Mother				
	Total	Less Than High School	High School Graduation	One or More Years College	Not Stated
Total live births	41,078	5,098	15,593	20,360	27
Under 20	4,571	2,368	1,859	342	2
20-29	27,549	2,305	10,956	14,273	15
30 and over	8,955	425	2,778	5,742	10
Not stated	3	. .	. .	3	. .
No previous live births	13,144	2,140	4,896	6,104	4
Under 20	3,635	1,776	1,557	300	2
20-29	8,971	349	3,227	5,394	1
30 and over	537	15	112	409	1
Not stated	1	. .	. .	1	. .
One previous live birth	10,568	1,351	4,328	4,884	5
Under 20	810	506	274	30	. .
20-29	8,858	816	3,800	4,238	4
30 and over	899	29	254	615	1
Not stated	1	. .	. .	1	. .
Two previous live births	7,282	779	2,853	3,645	5
Under 20	106	76	26	4	. .
20-29	5,685	650	2,327	2,703	5
30 and over	1,491	53	500	938	. .
Not stated	. .	. .	. .	. .	. .
Three previous live births	4,741	431	1,722	2,586	2
Under 20	8	7	1	. .	. .
20-29	2,833	329	1,149	1,353	2
30 and over	1,900	95	572	1,233	. .
Not stated	. .	. .	. .	. .	. .
Four previous live births or more	5,300	389	1,785	3,115	11
Under 20	. .	. .	. .	. .	. .
20-29	1,176	156	446	571	3
30 and over	4,124	233	1,339	2,544	8
Not stated	. .	. .	. .	. .	. .
Not stated	43	8	9	26	. .
Under 20	12	3	1	8	. .
20-29	26	5	7	14	. .
30 and over	4	. .	1	3	. .
Not stated	1	. .	. .	1	. .

TABLE A-15

LIVE BIRTHS BY AGE AND EDUCATION OF PARENTS: UTAH, 1979

Age of Parents	Total Live Births		Live Births by Education of Parents							
			Less than High School Education		High School Education		One or More Years of College		Not Stated	
	Father	Mother	Father	Mother	Father	Mother	Father	Mother	Father	Mother
Total	41,078	41,078	3,161	5,100	11,392	15,593	24,297	19,840	2,228	545
Under 15	1	28	1	28	. .	. .	. .	. .	. .	. .
15	2	133	2	130	. .	. .	. .	. .	. .	3
16	26	412	23	393	. .	7	. .	. .	3	12
17	165	821	126	686	30	115	1	. .	8	20
18	480	1,295	213	610	233	634	14	22	20	29
19	749	1,882	241	522	420	1,103	74	221	14	36
20-24	10,772	15,141	1,213	1,694	4,501	6,750	4,899	6,511	159	186
25-29	13,455	12,408	549	612	3,569	4,206	9,136	7,433	201	157
30-34	8,148	6,329	292	286	1,436	1,861	6,316	4,113	104	69
35-39	3,704	2,217	182	103	743	750	2,724	1,343	55	21
40-44	1,227	384	91	35	274	154	840	186	22	9
45+	482	25	59	1	130	13	276	10	17	1
Not stated	1,867	3	169	. .	56	. .	17	1	1,625	2

TABLE A-16

OUT-OF-WEDLOCK LIVE BIRTHS BY AGE AND EDUCATION OF PARENTS: UTAH, 1979

Age of Parents	Total Live Births		Out-of-Wedlock Live Births by Education of Parents							
			Less than High School Education		High School Education		One or More Years of College		Not Stated	
	Father	Mother	Father	Mother	Father	Mother	Father	Mother	Father	Mother
Total	2,316	2,316	182	1,098	237	852	87	287	1,810	79
Under 15	1	18	1	18	. .	. .	. .	. .	. .	. .
15	. .	81	. .	81	. .	. .	. .	. .	. .	. .
16	8	169	6	164	. .	3	. .	. .	2	2
17	26	247	18	207	2	29	. .	. .	6	11
18	44	289	22	151	8	122	. .	5	14	11
19	46	275	21	95	21	151	. .	16	4	13
20-24	184	784	46	254	73	372	15	136	50	22
25-29	139	295	25	75	50	124	37	82	27	14
30-34	42	116	5	39	12	38	11	37	14	2
35-39	30	35	6	11	11	11	5	10	8	3
40-44	11	5	1	3	5	1	4	1	1	. .
45+	5	1	1	. .	1	1	1	. .	2	. .
Not stated	1,780	1	30	. .	54	. .	14	. .	1,682	1

TABLE A-17

OUT-OF-WEDLOCK LIVE BIRTHS BY AGE AND RESIDENCE OF MOTHER: UTAH, 1979

Residence of Mother	Out-of-Wedlock Births by Age of Mother									
	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not Stated
Total	2,316	18	1,061	784	295	116	35	5	1	1
District 1	69	. .	33	20	11	5	. .	. .	. .	. .
Box Elder	39	. .	19	12	4	4	. .	. .	. .	. .
Cache	30	. .	14	8	7	1	. .	. .	. .	. .
Rich	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 2N	481	3	231	159	56	25	6	. .	. .	1
Davis	150	. .	77	49	12	6	5	. .	. .	1
Morgan	2	. .	. .	2	. .	. .	. .	. .	. .	
Weber	329	3	154	108	44	19	1	. .	. .	. .
District 2S	1,234	11	556	418	165	61	17	5	1	. .
Salt Lake	1,188	9	534	403	160	60	16	5	1	. .
Tooele	46	2	22	15	5	1	1	. .	. .	. .
District 3	245	3	111	89	28	11	3	. .	. .	. .
Summit	9	. .	1	5	1	2	. .	. .	. .	. .
Utah	226	3	108	79	24	9	3	. .	. .	. .
Wasatch	10	. .	2	5	3	. .	. .	. .	. .	. .
District 4	40	. .	19	13	7	1	. .	. .	. .	. .
Juab	6	. .	3	2	. .	1	. .	. .	. .	. .
Millard	4	. .	2	2	. .	. .	. .	. .	. .	. .
Piute	2	. .	1	. .	1	. .	. .	. .	. .	. .
Sanpete	10	. .	3	4	3	. .	. .	. .	. .	. .
Sevier	17	. .	10	4	3	. .	. .	. .	. .	. .
Wayne	1	. .	. .	1	. .	. .	. .	. .	. .	. .
District 5	63	. .	30	20	5	5	3	. .	. .	. .
Beaver	8	. .	5	1	1	. .	1	. .	. .	. .
Garfield	4	. .	2	1	. .	1	. .	. .	. .	. .
Iron	27	. .	8	13	4	1	1	. .	. .	. .
Kane	2	. .	1	. .	. .	1	. .	. .	. .	. .
Washington	22	. .	14	5	. .	2	1	. .	. .	. .
District 6	67	. .	23	30	8	3	3	. .	. .	. .
Daggett	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Duchesne	24	. .	8	14	1	. .	1	. .	. .	. .
Uintah	43	. .	15	16	7	3	2	. .	. .	. .
District 7	117	1	58	35	15	5	3	. .	. .	. .
Carbon	34	. .	19	13	2	. .	. .	. .	. .	. .
Emery	13	. .	9	2	2	. .	. .	. .	. .	. .
Grand	21	1	10	5	3	2	. .	. .	. .	. .
San Juan	49	. .	20	15	8	3	3	. .	. .	. .

TABLE A-18

LIVE BIRTHS BY AGE AND MARITAL STATUS OF MOTHER AND RACE OF CHILD: UTAH, 1979

Marital Status and Race	Total Live Births	Live Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not stated
All births	41,078	28	4,543	15,141	12,408	6,329	2,217	384	25	3
White	39,599	28	4,328	14,616	11,959	6,123	2,149	369	24	3
Black	232	. .	52	92	59	24	5	. .	. .	. .
Indian	568	. .	108	229	137	66	22	5	1	. .
Other nonwhite	638	. .	47	188	242	114	37	10	. .	. .
Not stated	41	. .	8	16	11	2	4	. .	. .	. .
Births in wedlock	38,762	10	3,482	14,357	12,113	6,213	2,182	379	24	2
White	37,562	10	3,367	13,948	11,702	6,024	2,122	364	23	2
Black	138	. .	11	58	46	18	5	. .	. .	. .
Indian	418	. .	60	165	114	57	16	5	1	. .
Other nonwhite	614	. .	40	176	240	112	36	10	. .	. .
Not stated	30	. .	4	10	11	2	3	. .	. .	. .
Births not in wedlock	2,316	18	1,061	784	295	116	35	5	1	1
White	2,037	18	961	668	257	99	27	5	1	1
Black	94	. .	41	34	13	6	. .	. .	. .	. .
Indian	150	. .	48	64	23	9	6	. .	. .	. .
Other nonwhite	24	. .	7	12	2	2	1	. .	. .	. .
Not stated	11	. .	4	6	. .	. .	1	. .	. .	. .

TABLE A-19

BIRTHS TO UTAH RESIDENTS BY AGE OF MOTHER BY BIRTH WEIGHT OF CHILD: UTAH, 1979

Weight of Child at Birth	Total Live Births	Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not Stated
Total	41,078	28	4,543	15,141	12,408	6,329	2,217	384	25	3
1,000 grams or less (2 lbs 3 oz. or less)	130	. .	27	45	36	14	5	3	. .	. .
1,001-1,500 grams (2 lbs. 4 oz. to 3 lbs. 4 oz.)	160	1	36	58	36	25	4	. .	. .	. .
1,501-2,000 grams (3 lbs. 5 oz. to 4 lbs. 6 oz.)	418	. .	70	164	105	53	20	6	. .	. .
2,001-2,500 grams (4 lbs. 7 oz. to 5 lbs. 8 oz.)	1,579	. .	257	643	390	195	77	15	2	. .
2,501-3,000 grams (5 lbs. 9 oz. to 6 lbs. 9 oz.)	6,571	3	983	2,605	1,843	795	287	53	2	. .
3,001-3,500 grams (6 lbs. 10 oz. to 7 lbs. 11 oz.)	15,963	15	1,840	6,138	4,809	2,307	726	123	4	1
3,501 grams-4,000 grams (7 lbs. 12 oz. to 8 lbs. 13 oz.)	12,123	6	1,084	4,287	3,843	2,024	742	126	10	1
4,001-4,500 grams (8 lbs. 14 oz. to 9 lbs. 15 oz.)	3,451	3	208	1,041	1,139	743	274	40	3	. .
4,501 grams and over (10 lbs. and over)	618	. .	27	143	186	164	80	15	3	. .
Not stated	65	. .	11	17	21	9	2	3	1	1

TABLE A-20

LIVE BIRTHS TO UTAH RESIDENTS BY BIRTH WEIGHT WHERE THERE WAS MENTION OF ONE OR MORE BIRTH COMPLICATIONS: UTAH 1979

Birth Weight	All Live Births	Births by Conditions Noted			
		Complications Related to Pregnancy	Complications Not Related to Pregnancy	Congenital Anomaly	At Least One Condition
Total	41,078	6,338	1,482	732	7,567
1,000 grams or less (2 lbs. 3 oz. or less)	130	115	19	20	120
1,000-1,500 grams (2 lbs. 4 oz.-3 lbs. 4 oz.)	160	138	31	25	144
1,501-2,000 grams (3 lbs. 5 oz.-4 lbs. 6 oz.)	418	312	63	27	331
2,001-2,500 grams (4 lbs. 7 oz.-5 lbs 8.oz.)	1,579	707	121	77	782
2,501-3,000 grams (5 lbs. 9 oz.-6 lbs. 9 oz.)	6,571	1,286	290	139	1,515
3,001-3,500 grams (6 lbs. 10 oz-7 lbs. 11 oz.)	15,963	1,994	484	222	2,436
3,501-4,000 grams (7 lbs. 12 oz.-8 lbs. 13 oz.)	12,123	1,258	326	147	1,579
4,001-4,500 grams (8 lbs. 14 oz.-9 lbs. 14 oz.)	3,451	397	120	50	505
4,501 grams & over (9 lbs. 15 oz. & over	618	111	22	14	127
Not stated	65	20	6	11	28

TABLE A-21

LIVE BIRTHS BY MONTH PRENATAL CARE BEGAN WITH MENTION OF COMPLICATION BIRTH INJURY OR CONGENITAL ANOMALY: UTAH, 1979

Month Prenatal Care Began	Total Live Births	Births by Condition			
		Complication Related to Pregnancy	Complication Not Related to Pregnancy	Congenital Anomaly	At Least One Condition
Total births	41,078	6,338	1,482	732	7,567
No care	122	37	9	7	44
1	2,946	555	132	42	638
2	18,088	2,749	531	304	3,226
3	11,932	1,814	474	217	2,198
4	3,637	530	148	68	656
5	1,525	219	62	27	268
6	790	112	32	19	139
7	482	73	16	13	90
8	300	31	18	2	39
9	102	19	6	2	22
Not stated	1,154	199	54	31	247

TABLE A-22

BIRTHS TO RESIDENTS BY AGE OF MOTHER WITH MENTION OF COMPLICATION AT BIRTH: UTAH, 1979

Condition	Total	Births with Mention of Complication by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not Stated
Complications relates to pregnancy	6,338	7	849	2,231	1,769	1,006	394	76	4	2
Complication not related to pregnancy	1,482	. .	166	497	426	256	111	25	1	. .
Congenital anomaly	732	. .	92	258	198	126	48	10	. .	. .
At least one condition	7,567	7	995	2,647	2,141	1,206	471	94	4	2

TABLE A-23

LIVE BIRTHS BY RESIDENCE OF MOTHER WITH MENTION OF COMPLICATION BIRTH INJURY OR CONGENITAL ANOMALY: UTAH, 1979

District and County	Complications Related to Pregnancy	Complications Not Related to Pregnancy	Congenital Anomalies	At Least One Condition
Total	6,338	1,482	732	7,567
District 1	504	86	48	572
Box Elder	173	19	24	191
Cache	318	64	23	365
Rich	13	3	1	16
District 2N	1,280	286	116	1,509
Davis	664	140	63	773
Morgan	14	1	. .	15
Weber	602	145	53	721
District 2S	3,014	845	204	3,549
Salt Lake	2,881	800	191	3,384
Tooele	133	45	13	165
District 3	969	111	122	1,105
Summit	36	10	2	43
Utah	903	93	118	1,026
Wasatch	30	8	2	36
District 4	145	40	19	179
Juab	18	7	2	21
Millard	33	11	4	39
Piute	2	1	. .	2
Sanpete	54	11	11	69
Sevier	34	8	2	43
Wayne	4	2	. .	5
District 5	95	33	53	155
Beaver	21	11	5	32
Garfield	3	1	2	5
Iron	10	6	5	19
Kane	4	2	3	8
Washington	57	13	38	91
District 6	132	32	17	155
Daggett	. .	. .	. .	. .
Duchesne	69	18	7	81
Uintah	63	14	10	74
District 7	199	49	153	343
Carbon	83	11	72	145
Emery	51	8	54	94
Grand	3	4	6	12
San Juan	62	26	21	92

TABLE A-24

BIRTHS TO UTAH RESIDENTS BY 5-MINUTE APGAR SCORE AND BIRTH WEIGHT OF CHILD: UTAH, 1979

Weight of Child at Birth	Total Live Births	Births by 5-Minute APGAR Score											
		00	01	02	03	04	05	06	07	08	09	10	Not Stated
Total	41,078	31	58	39	61	86	201	525	1,285	5,619	28,368	4,259	546
1,000 grams or less (2 lbs. 3 oz. or less)	130	15	27	14	10	10	18	6	8	7	3	. .	12
1,001-1,500 grams (2 lbs. 4 oz. to 3 lbs. 4 oz.)	160	3	6	3	10	9	18	30	33	25	15	1	7
1,501-2,000 grams (3 lbs. 5 oz. to 4 lbs. 6 oz.)	418	1	3	5	5	9	22	35	82	110	111	11	24
2,001-2,500 grams (4 lbs. 7 oz. to 5 lbs. 8 oz.)	1,579	. .	5	1	8	11	33	86	147	363	803	84	38
2,501-3,000 grams (5 lbs. 9 oz. to 6 lbs. 9 oz.)	6,571	6	2	5	10	11	31	102	261	1,006	4,377	692	68
3,001-3,500 grams (6 lbs. 10 oz. to 7 lbs. 11 oz.)	15,963	1	6	1	9	17	34	135	364	2,034	11,419	1,772	171
3,501-4,000 grams (7 lbs. 12 oz. to 8 lbs. 13 oz.)	12,123	2	3	6	5	10	29	96	288	1,469	8,770	1,293	152
4,001-4,500 grams (8 lbs. 14 oz. to 9 lbs. 15 oz.)	3,451	1	1	2	1	4	9	22	75	503	2,436	358	39
4,501 grams and over (9 lbs. 15 oz. and over)	618	. .	. .	. .	1	1	3	7	24	101	426	46	9
Not stated	65	2	5	2	2	4	4	6	3	1	8	2	26

TABLE A-25

LIVE BIRTHS BY AGE AND RESIDENCE OF MOTHER, WHERE MOTHER IS OF SPANISH ORIGIN: UTAH, 1979

Residence of Mother	Total Births	Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Not Stated
Total	1,513	6	346	537	385	181	41	16	. .	1
District 1	63	. .	12	17	18	12	4	. .	. .	. .
Box Elder	39	. .	10	11	8	6	4	. .	. .	. .
Cache	24	. .	2	6	10	6	. .	. .	. .	. .
Rich	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 2N	344	1	89	119	81	42	6	5	. .	1
Davis	126	. .	30	46	30	15	3	2	. .	. .
Morgan	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Weber	218	1	59	73	51	27	3	3	. .	1
District 2S	788	4	197	281	181	97	19	9	. .	. .
Salt Lake	725	4	184	254	167	93	16	7	. .	. .
Tooele	63	. .	13	27	14	4	3	2	. .	. .
District 3	144	. .	16	53	55	14	5	1	. .	. .
Summit	3	. .	. .	1	2	. .	. .	. .	. .	. .
Utah	136	. .	14	51	51	14	5	1	. .	. .
Wasatch	5	. .	2	1	2	. .	. .	. .	. .	. .
District 4	23	. .	3	11	8	1	. .	. .	. .	. .
Juab	4	. .	1	2	. .	1	. .	. .	. .	. .
Millard	6	. .	. .	2	4	. .	. .	. .	. .	. .
Piute	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sanpete	11	. .	1	6	4	. .	. .	. .	. .	. .
Sevier	2	. .	1	1	. .	. .	. .	. .	. .	. .
Wayne	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 5	18	. .	5	5	5	2	1	. .	. .	. .
Beaver	3	. .	. .	1	2	. .	. .	. .	. .	. .
Garfield	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Iron	5	. .	1	2	1	. .	1	. .	. .	. .
Kane	1	. .	. .	. .	. .	1	. .	. .	. .	. .
Washington	9	. .	4	2	2	1	. .	. .	. .	. .
District 6	38	. .	3	15	12	6	1	1	. .	. .
Daggett	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Duchesne	9	. .	1	4	1	1	1	1	. .	. .
Uintah	29	. .	2	11	11	5	. .	. .	. .	. .
District 7	95	1	21	36	25	7	5	. .	. .	. .
Carbon	52	. .	11	25	10	4	2	. .	. .	. .
Emery	10	. .	3	1	5	. .	1	. .	. .	. .
Grand	10	1	2	4	1	1	1	. .	. .	. .
San Juan	23	. .	5	6	9	2	1	. .	. .	. .

TABLE A-26

LIVE BIRTHS BY AGE OF MOTHER, RACE OF CHILD, AND MONTH PRENATAL CARE BEGAN, WHERE MOTHER IS OF SPANISH ORIGIN: UTAH, 1979

Race of Child and Age of Mother	Total	Births by Month Prenatal Care Began										
		No Care	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Not Stated
Total	1,513	8	103	466	398	200	104	68	66	21	10	69
Under 15	6	. .	. .	2	. .	2	1	. .	. .	. .	. .	1
15-19	346	. .	20	80	75	65	34	22	26	5	2	17
20-24	537	4	34	174	145	69	31	17	20	9	3	31
25-29	385	1	31	134	103	43	23	20	13	3	3	11
30-34	181	2	12	61	51	18	12	7	6	2	2	8
35-39	41	1	5	8	19	2	2	2	. .	1	.	1
40-44	16	. .	1	7	5	. .	1	. .	1	1	.	. .
Not stated	1	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	.
White	1,421	5	99	447	379	184	94	62	63	20	8	60
Under 15	6	. .	. .	2	. .	2	1	. .	. .	. .	. .	1
15-19	325	. .	18	78	70	62	31	21	25	4	2	14
20-24	507	3	33	168	138	62	30	14	19	9	3	28
25-29	360	1	30	128	97	42	19	18	12	3	2	8
30-34	168	. .	12	57	50	14	11	7	6	2	1	8
35-39	38	1	5	7	19	1	1	2	. .	1	.	1
40-44	16	. .	1	7	5	. .	1	. .	1	1	. .	. .
Not stated	1	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	
Black	17	. .	2	3	6	2	2	1	. .	. .	. .	1
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	.
15-19	8	. .	2	1	3	. .	. .	1	. .	. .	. .	1
20-24	6	. .	. .	. .	3	2	1	. .	. .	. .	. .	. .
25-29	2	. .	. .	1	. .	. .	1	. .	. .	. .	. .	
30-34	1	. .	. .	1	. .	. .	. .	. .	. .		. .	
35-39	. .	. .	. .	. .	. .	. .	. .	. .	. .	.	. .	.
40-44	. .	. .	. .	.	. .	. .	. .	.	. .	. .	. .	.
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Indian	41	1	2	9	8	9	2	. .	2	1	2	5
Under 15	.	. .	. .	. .	. .	. .	. .	. .	. .	. .	.	.
15-19	6	. .	. .	1	. .	3	. .	. .	1	1	. .	
20-24	13	. .	1	3	2	3	. .	. .	1	. .	. .	3
25-29	12	. .	1	1	5	1	1	. .	. .	. .	1	2
30-34	8	1	. .	3	1	1	1	. .	. .	. .	1	
35-39	2	. .	. .	1	. .	1	. .	. .	. .	. .	. .	
40-44	.	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	.
Not stated	.	. .	. .	.	. .	. .	. .	. .	. .	. .	. .	
Other nonwhite	27	2	. .	7	4	4	4	2	1	. .	. .	3
Under 15	. .	. .	. .	. .	.	. .	. .	. .	. .	. .	. .	
15-19	5	. .	. .	. .	1	. .	2	. .	. .	. .	. .	2
20-24	7	1	. .	3	2	1	. .	. .	. .	. .	.	. .
25-29	11	. .	. .	4	1	.	2	2	1	. .	. .	1
30-34	4	1	. .	. .	. .	3	. .	. .	. .	. .	. .	.
35-39	. .	. .	. .	. .	.	. .	. .	. .	. .	. .	. .	.
40-44	.	.	. .	. .	.	. .	. .	. .	. .	. .	.	.
Not stated	. .	. .	. .	. .	. .	.	. .	. .	. .	.	. .	. .
Not stated	7	. .	. .	. .	1	1	2	3	. .	. .	.	
Under 15	. .	. .	. .	. .		.	. .	. .	. .	. .	. .	
15-19	2	. .	. .	. .	1		1	.	. .	. .	. .	
20-24	4	. .	. .	. .	. .	1	. .	3	. .	. .	. .	. .
25-29	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	.
30-34	. .	. .	. .	. .	. .	.	. .	. .	. .	. .	. .	.
35-39	1	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	.
40-44	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	
Not stated	. .	. .	. .	. .	. .	.	. .	.	. .	. .	. .	

TABLE A-27

BIRTHS TO UTAH RESIDENTS BY RACE OF CHILD, AGE OF MOTHER, AND NUMBER OF PRENATAL VISITS, WHERE MOTHER IS OF SPANISH ORIGIN: UTAH, 1979

Race of Child and Age of Mother	Prenatal Visits								
	Total	No Care	1-5	6-9	10-14	15-18	19-27	27+	Not Stated
Total	1,513	11	235	445	705	38	3	1	75
Under 15	6	. .	3	1	2	. .	. .	. .	. .
15-19	346	1	69	104	142	10	1	. .	19
20-24	537	4	78	149	258	14	. .	. .	34
25-29	385	2	49	124	189	6	1	. .	14
30-34	181	2	30	51	82	7	1	1	7
35-39	41	1	5	11	23	. .	. .	. .	1
40-44	16	1	1	4	9	1	. .	. .	. .
Not stated	1	. .	. .	1	. .	. .	. .	. .	. .
White	1,421	7	219	420	669	37	2	. .	67
Under 15	6	. .	3	1	2	. .	. .	. .	. .
15-19	325	1	65	98	134	9	1	. .	17
20-24	507	3	73	143	243	14	. .	. .	31
25-29	360	1	45	116	180	6	. .	. .	12
30-34	168	. .	28	47	78	7	1	. .	7
35-39	38	1	4	10	23	. .	. .	. .	. .
40-44	16	1	1	4	9	1	. .	. .	. .
Not stated	1	. .	. .	1	. .	. .	. .	. .	. .
Black	17	. .	2	5	9	. .	. .	. .	1
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	8	. .	2	1	4	. .	. .	. .	1
20-24	6	. .	. .	2	4	. .	. .	. .	. .
25-29	2	. .	. .	1	1	. .	. .	. .	. .
30-34	1	. .	. .	1	. .	. .	. .	. .	. .
35-39	. .	. .	. .	. .	. .	. .	. .	. .	. .
40-44	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .
Indian	41	2	7	14	9	1	1	1	6
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	6	. .	1	4	. .	1	. .	. .	3
20-24	13	. .	2	2	6	. .	1	. .	2
25-29	12	1	2	5	1	. .	. .	1	. .
30-34	8	1	2	2	2	. .	. .	. .	1
35-39	2	. .	. .	1	. .	. .	. .	. .	. .
40-44	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .
Other nonwhite	27	2	4	4	16	. .	. .	. .	1
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	1
15-19	5	. .	1	1	2	. .	. .	. .	. .
20-24	7	1	1	. .	5	. .	. .	. .	. .
25-29	11	. .	2	2	7	. .	. .	. .	. .
30-34	4	1	. .	1	2	. .	. .	. .	. .
35-39	. .	. .	. .	. .	. .	. .	. .	. .	. .
40-44	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	7	. .	3	2	2	. .	. .	. .	. .
Under 15	. .	. .	. .	. .	. .	. .	. .	. .	. .
15-19	2	. .	. .	. .	2	. .	. .	. .	. .
20-24	4	. .	2	2	. .	. .	. .	. .	. .
25-29	. .	. .	. .	. .	. .	. .	. .	. .	. .
30-34	. .	. .	. .	. .	. .	. .	. .	. .	. .
35-39	1	. .	1	. .	. .	. .	. .	. .	. .
40-44	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not stated	. .	. .	. .	. .	. .	. .	. .	. .	. .

TABLE A-28

LIVE BIRTHS BY AGE AND MARITAL STATUS OF MOTHER AND RACE OF CHILD WHERE MOTHER IS OF SPANISH ORIGIN: UTAH, 1979

Marital Status and Race	Total	Births by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	Not Stated
Total	1,513	6	346	537	385	181	41	16	. .	1
White	1,421	6	325	507	360	168	38	16	. .	1
Black	17	. .	8	6	2	1	. .	. .	. .	. .
Indian	41	. .	6	13	12	8	2	. .	. .	. .
Other nonwhite	27	. .	5	7	11	4	. .	. .	. .	. .
Not stated	7	. .	2	4	. .	. .	1	. .	. .	. .
Births in wedlock	1,195	. .	196	440	343	162	37	16	. .	1
White	1,128	. .	184	417	322	153	35	16	. .	1
Black	9	. .	3	5	1	. .	. .	. .	. .	. .
Indian	33	. .	5	10	10	6	2	. .	. .	. .
Other nonwhite	24	. .	4	7	10	3	. .	. .	. .	. .
Not stated	1	. .	. .	1	. .	. .	. .	. .	. .	. .
Births not in wedlock	318	6	150	97	42	19	4	. .	. .	. .
White	293	6	141	90	38	15	3	. .	. .	. .
Black	8	. .	5	1	1	1	. .	. .	. .	. .
Indian	8	. .	1	3	2	2	. .	. .	. .	. .
Other nonwhite	3	. .	1	. .	1	1	. .	. .	. .	. .
Not stated	6	. .	2	3	. .	. .	1	. .	. .	. .

TABLE A-29

LIVE BIRTHS TO RESIDENTS BY AGE OF MOTHER WITH MENTION OF COMPLICATION WHERE MOTHER IS OF SPANSH ORIGIN: UTAH, 1979

Condition	Total	Births with Mention of Complication by Age of Mother							
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+
Complications related to pregnancy	269	1	78	93	55	28	8	5	1
Complication not related to pregnancy	75	. .	13	29	9	18	4	2	. .
Congenital anomaly	36	. .	6	12	10	7	. .	1	. .
At least one condition	329	1	86	114	68	41	11	7	1

TABLE A-30

LIVE BIRTHS BY RESIDENCE OF MOTHER WITH MENTION OF COMPLICATION OR CONGENITAL ANOMALY, WHERE MOTHER IS OF SPANISH ORIGIN: UTAH, 1979

District and County	Complications Related to Pregnancy	Complications Not Related to Pregnancy	Congenital Anomalies	At Least One Condition
Total	269	75	36	329
District 1	11	1	1	12
Box Elder	3	. .	. .	3
Cache	8	1	1	9
Rich	. .	. .	. .	. .
District 2N	65	14	4	74
Davis	19	1	2	22
Morgan	. .	. .	. .	. .
Weber	46	13	2	52
District 2S	149	50	15	181
Salt Lake	130	45	15	160
Tooele	19	5	. .	21
District 3	19	3	4	24
Summit	. .	. .	. .	. .
Utah	18	3	4	23
Wasatch	1	. .	. .	1
District 4	5	2	2	7
Juab	. .	. .	. .	. .
Millard	3	2	2	5
Piute	. .	. .	. .	. .
Sanpete	2	. .	. .	2
Sevier	. .	. .	. .	. .
Wayne	. .	. .	. .	. .
District 5	1	. .	. .	1
Beaver	. .	. .	. .	. .
Garfield	. .	. .	. .	. .
Iron	1	. .	. .	1
Kane	. .	. .	. .	. .
Washington	. .	. .	. .	. .
District 6	8	1	. .	8
Daggett	. .	. .	. .	. .
Duchesne	3	1	. .	3
Uintah	5	. .	. .	5
District 7	11	4	10	22
Carbon	4	1	7	11
Emery	2	. .	1	3
Grand	. .	. .	. .	. .
San Juan	5	3	2	8

TABLE A-31

BIRTHS AND DEATHS BY OCCURRENCE AND RESIDENCE: UTAH, 1979

County and City	Births		Deaths	
	Place of Occurrence	Place of Residence	Place of Occurrence	Place of Residence
Total	42,104	41,078	8,275	7,871
Beaver County	144	131	39	52
Beaver City	91	57	23	27
Milford	53	41	16	20
Minersville	. .	28	. .	2
Bal. of County	. .	5	. .	3
Box Elder County	731	877	178	191
Brigham City	574	382	110	96
Tremonton	152	106	39	19
Corinne	. .	14	4	7
Garland	. .	43	. .	7
Honeyville	1	18	. .	5
Perry	1	15	. .	6
Bear River	. .	14	1	4
Willard	1	30	2	6
Bal. of County	2	255	22	41
Cache County	2,004	1,670	255	288
Logan	1,995	865	208	148
Smithfield	3	161	3	21
Lewiston	. .	41	2	13
Hyde Park	. .	44	2	4
Newton	3	26	. .	5
North Logan	. .	18	3	5
Providence	. .	66	3	7
Richmond	. .	55	4	13
River Heights	. .	6	. .	. .
Hyrum	. .	128	1	15
Wellsville	. .	66	1	8
Bal. of County	3	194	28	49
Carbon County	794	585	155	154
Dragerton	. .	1	. .	. .
Helper	. .	44	. .	27
Price	793	226	148	61
Sunnyside	. .	11	. .	4
Wellington	. .	9	1	17
Bal. of County	1	294	6	45
Daggett County	. .	17	1	2
Manila	. .	11	. .	2
Dutch John	. .	4	. .	. .
Bal. of County	. .	2	1	. .

TABLE A-31--Continued

County and City	Births		Deaths	
	Place of Occurrence	Place of Residence	Place of Occurrence	Place of Residence
Davis County	2,814	3,946	446	505
Bountiful	1,614	683	252	133
Centerville	3	258	3	22
Clearfield	2	421	25	63
Farmington	. .	134	3	15
Kaysville	7	339	10	52
Layton	733	674	105	72
North Salt Lake	1	167	. .	21
Sunset	2	149	4	18
South Weber	1	25	. .	3
Clinton	1	221	3	11
Syracuse	2	107	2	12
West Point	. .	56	3	8
Woods Cross	5	122	3	16
Bal. of County	443	590	33	59
Duchesne	371	402	79	74
Roosevelt	370	166	54	25
Duchesne City	. .	51	5	9
Bal. of County	1	185	20	40
Emery County	6	385	26	59
Green River	. .	25	1	9
Ferron	. .	36	8	10
Castle Dale	. .	43	4	7
Huntington	2	46	5	11
Orangeville	. .	19	1	8
Bal. of County	4	216	7	14
Garfield County	84	87	24	28
Panguitch	84	39	22	16
Escalante	. .	14	. .	2
Bal. of County	. .	34	2	10
Grand County	233	198	54	48
Moab	233	189	44	47
Bal. of County	. .	9	10	1
Iron County	542	493	96	104
Cedar City	541	414	74	71
Parowan	1	48	10	14
Bal. of County	. .	31	12	19
Juab County	50	162	38	43
Nephi	50	102	26	30
Eureka	. .	16	3	8
Bal. of County	. .	44	9	5

TABLE A-31--Continued

County and City	Births		Deaths	
	Place of Occurrence	Place of Residence	Place of Occurrence	Place of Residence
Kane County	96	97	27	24
Kanab	96	64	23	19
Bal. of County	. .	33	4	5
Millard County	205	233	65	70
Delta	145	68	29	22
Fillmore	59	59	17	13
Bal. of County	1	106	19	35
Morgan County	. .	113	15	33
Morgan City	. .	77	6	25
Bal. of County	. .	36	9	8
Piute County	. .	22	4	12
Kingston	. .	2	. .	. .
Marysvale	. .	6	2	5
Circleville	. .	8	1	4
Bal. of County	. .	6	1	3
Rich	. .	64	3	16
Garden City	. .	8	1	5
Randolph	. .	27	1	6
Woodruff	. .	11	. .	1
Bal. of County	. .	18	1	4
Salt Lake County	17,755	16,488	4,102	3,466
Kearns	9	748	14	81
Magna	7	521	19	67
Midvale	3	273	11	68
Murray	3,433	651	387	152
Riverton	4	233	6	24
Salt Lake City	11,278	3,932	2,385	1,625
Sandy	8	1,753	26	100
South Salt Lake	4	317	59	115
West Jordan	10	923	18	56
Cottonwood	4	855	53	167
Granger Hunter	684	2,045	195	212
Holladay	4	480	87	130
South Jordan	. .	181	5	16
White City	3	189	4	18
East Millcreek	4	419	137	163
Bal. of County	2,300	2,968	696	472
San Juan County	335	362	51	47
Blanding	5	118	14	17
Monticello	244	85	14	8
Monument Valley	82	20	6	. .
Bal. of County	4	139	17	22

TABLE A-31--Continued

County and City	Births		Deaths	
	Place of Occurrence	Place of Residence	Place of Occurrence	Place of Residence
Sanpete County	396	372	85	123
Ephraim	1	73	2	7
Manti	1	48	10	22
Fountain Green	. .	16	1	6
Gunnison	180	34	22	10
Fairview	1	19	2	8
Moroni	. .	37	4	14
Mt. Pleasant	211	65	30	25
Spring City	. .	17	2	9
Bal. of County	2	63	12	22
Sevier County	436	424	119	115
Richfield	435	178	93	46
Aurora	. .	29	2	7
Salina	. .	53	3	15
Bal. of County	1	164	21	47
Summit County	27	218	42	53
Summit	2	79	19	12
Park City	. .	50	3	15
Henefer	. .	20	2	4
Kamas	. .	31	3	11
Coalville	25	38	15	11
Tooele County	205	657	127	153
Grantsville	. .	125	5	23
Tooele City	203	367	103	108
Stockton	. .	11	1	2
Dugway	. .	42	2	2
Wendover	2	31	7	6
Bal. of County	. .	81	9	12
Uintah County	543	619	62	105
Vernal	538	220	46	39
Maeser	. .	53	. .	. .
Ft. Duchesne	. .	25	. .	6
Bal. of County	5	321	16	60
Utah County	8,083	7,861	907	895
American Fork	636	468	102	85
Lehi	4	269	11	47
Orem	20	2,204	106	160
Payson	1,160	347	114	44
Pleasant Grove	6	377	18	49
Provo	6,235	2,676	482	257

TABLE A-31--Continued

County and City	Births		Deaths	
	Place of Occurrence	Place of Residence	Place of Occurrence	Place of Residence
Utah County (Cont.)				
Spanish Fork	5	372	21	70
Springville	1	433	11	74
Alpine	2	66	2	9
Goshen	. .	11	. .	3
Salem	1	68	1	7
Santaquin	2	76	1	15
Lindon	1	86	1	7
Mapleton	3	64	3	13
Bal. of County	7	344	34	55
Wasatch County	255	216	63	61
Heber	254	120	50	34
Midway	. .	31	3	13
Bal. of County	1	65	10	14
Washington County	1,062	746	188	184
St. George	915	346	149	82
Colorado City	137	49	2	2
Enterprise	. .	22	1	6
Hurricane	3	79	15	30
Laverkin	3	39	5	10
Bloomington	. .	30	1	5
Washington City	2	89	2	12
Bal. of County	2	92	13	37
Wayne County	. .	46	10	13
Loa	. .	9	2	3
Bal. of County	. .	37	8	10
Weber County	4,933	3,587	1,014	953
North Ogden	. .	249	8	33
Ogden	3,715	1,624	594	598
Riverdale	1	77	10	29
Roy	. .	532	62	94
South Ogden	3	185	15	52
Washington Terrace	1,206	192	277	35
Harrisville	. .	18	. .	1
Huntsville	. .	24	2	9
Plain City	1	58	3	5
Pleasant View	1	21	3	9
Bal. of County	6	607	40	88

TABLE A-32

LIVE BIRTHS, PREMATURE LIVE BIRTHS, FETAL DEATHS, AND SELECTED CAUSES OF INFANT MORTALITY BY INSTITUTION AND COUNTY OF OCCURRENCE: UTAH, 1979

County and Institution	Live Births		Fetal Deaths	Infant Deaths by Selected Causes								
	Total	Premature		Total	Nervous System 320-359	Respiratory System 465-507	Digestive System 528-571	Congenital Anomalies 740-759	Respiratory Distress Syndrome 769	Complications of Pregnancy 760-779	Sudden Death Cause Unknown 798	All Other
Total	42,368	2,465	325	517	16	8	8	134	65	166	87	33
Beaver	144	8	1	. .	. .	. .	. .	. .	. .	. .	. .	. .
Beaver Valley Hospital	91	4	1	. .	. .	. .	. .	. .	. .	. .	. .	. .
Milford Valley Hospital	53	4	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Box Elder	731	27	5	1	. .	. .	. .	1	. .	. .	. .	. .
Bear River Valley Hospital	150	9	1	. .	. .	. .	. .	. .	. .	. .	. .	. .
Cooley Memorial Hospital	566	18	4	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	15	. .	. .	1	. .	. .	. .	1	. .	. .	. .	. .
Cache	2,004	102	12	13	. .	. .	. .	5	1	4	3	. .
Logan Hospital	1,986	102	12	12	. .	. .	. .	5	1	4	2	. .
Not in hospital	18	. .	. .	1	. .	. .	. .	. .	. .	. .	1	. .
Carbon	794	45	8	2	. .	. .	. .	1	. .	. .	. .	1
Carbon County Hospital	793	45	8	2	. .	. .	. .	1	. .	. .	. .	1
Not in hospital	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Daggett[1]	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Davis	2,814	154	22	16	. .	. .	. .	5	1	4	5	1
Hill AFB, USAF Hospital	439	26	3	1	. .	. .	. .	. .	1	. .	. .	. .
Lakeview Hospital	1,610	84	15	5	. .	. .	. .	3	. .	2	. .	. .
North Davis Medical Center	727	41	4	4	. .	. .	. .	1	. .	2	1	. .
Not in hospital	38	3	. .	6	. .	. .	. .	1	. .	. .	4	1
Duchesne	371	14	2	4	1	. .	. .	. .	1	1	. .	1
Duchesne County Hospital	367	13	2	4	1	. .	. .	. .	1	1	. .	1
Not in hospital	4	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Emery[1]	6	1	. .	1	. .	. .	. .	. .	. .	. .	1	. .
Garfield	84	7	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Garfield Memorial Hospital	84	7	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Grand	233	10	2	2	. .	. .	. .	1	. .	. .	1	. .
Allen Memorial Hospital	233	10	2	1	. .	. .	. .	1	. .	. .	. .	. .
Not in hospital	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	1	. .
Iron	542	24	6	6	. .	. .	1	. .	1	3	1	. .
Valley View Medical Center	535	24	6	5	. .	. .	1	. .	1	3	. .	. .
Not in hospital	7	. .	. .	1	. .	. .	. .	. .	. .	. .	1	. .
Juab	50	2	. .	1	. .	. .	. .	. .	. .	. .	1	. .
Juab County Hospital	49	2	. .	1	. .	. .	. .	. .	. .	. .	1	. .
Not in hospital	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Kane	96	3	1	. .	. .	. .	. .	. .	. .	. .	. .	. .
Kane County Hospital	96	3	1	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Millard	205	9	. .	1	. .	. .	. .	. .	. .	. .	1	. .
Fillmore Hospital	59	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
West Millard Hospital	144	6	. .	1	. .	. .	. .	. .	. .	. .	1	. .
Not in hospital	2	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Morgan[1]	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Piute[1]	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Rich[1]	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .

TABLE A-32--Continued

LIVE BIRTHS, PREMATURE LIVE BIRTHS, FETAL DEATHS, AND SELECTED CAUSES OF INFANT MORTALITY BY INSTITUTION AND COUNTY OF OCCURRENCE: UTAH, 1979

County and Institution	Live Births		Fetal Deaths	Infant Deaths by Selected Causes								
	Total	Premature		Total	Nervous System 320-359	Respiratory System 465-507	Digestive System 528-571	Congenital Anomalies 740-759	Respiratory Distress Syndrom 769	Complications of Pregnancy 760-779	Sudden Death Cause Unknown 798	All Other
Salt Lake	17,755	1,176	149	291	12	4	6	94	29	92	38	16
Cottonwood Hospital	3,427	158	29	14	1	1	. .	. .	. .	5	7	. .
Holy Cross Hospital	3,315	136	16	6	. .	. .	. .	2	. .	3	1	. .
L.D.S. Hospital	6,466	319	54	18	. .	. .	. .	4	3	10	. .	1
Primary Child.'s Med. Cent.				144	8	1	3	69	14	34	5	10
St. Mark's Hospital	2,251	120	13	6	. .	. .	2	1	. .	1	2	. .
University Hospital	1,443	361	29	75	2	2	. .	15	12	38	2	4
Valley West Hospital	673	53	5	4	. .	. .	. .	1	. .	. .	3	. .
Veteran's Hospital	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	180	29	3	24	1	. .	1	2	. .	1	18	1
San Juan	335	20	2	3	. .	1	. .	. .	. .	1	1	. .
Monument Valley Hospital	82	4	. .	1	. .	. .	. .	. .	. .	1	. .	. .
San Juan Co. Hospital	244	15	2	1	. .	1	. .	. .	. .	. .	. .	. .
Not in hospital	9	1	. .	1	. .	. .	. .	. .	. .	. .	1	. .
Sanpete	396	22	3	1	. .	. .	. .	. .	. .	. .	. .	1
Gunnison Valley Hospital	181	12	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sanpete Valley Hospital	211	10	3	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	4	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	1
Sevier	436	23	3	2	1	. .	. .	. .	. .	. .	1	. .
Sevier Valley Hospital	431	23	3	1	1	. .	. .	. .	. .	. .	. .	. .
Not in hospital	5	. .	. .	1	. .	. .	. .	. .	. .	. .	1	. .
Summit	27	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Summit County Hospital	25	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Tooele	205	10	4	6	. .	. .	. .	. .	. .	. .	6	. .
Tooele Valley Hospital	201	10	4	3	. .	. .	. .	. .	. .	. .	3	. .
U.S. Army Health Clinic	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	4	. .	. .	3	. .	. .	. .	. .	. .	. .	3	. .
Uintah	543	28	1	5	. .	. .	. .	1	. .	2	. .	2
Uintah County Hospital	537	26	1	5	. .	. .	. .	1	. .	2	. .	2
Not in hospital	6	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Utah	8,083	374	60	95	2	1	. .	17	22	36	14	3
American Fork Hospital	631	23	6	. .	. .	. .	. .	. .	. .	. .	. .	. .
Mountain View Hospital	1,156	40	6	5	1	. .	. .	. .	. .	3	. .	1
Utah State Hospital	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Utah Valley Hospital	6,215	305	47	78	1	1	. .	17	22	32	4	1
Not in hospital	83	6	1	12	. .	. .	. .	. .	. .	1	10	1
Wasatch	255	16	2	2	. .	1	. .	. .	. .	. .	1	. .
Heber Valley Clinic	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	1	. .
Wasatch County Hospital	254	16	2	. .	. .	. .	. .	. .	. .	. .	. .	. .
Not in hospital	1	. .	. .	1	. .	1	. .	. .	. .	. .	. .	. .
Washington	1,062	42	5	5	. .	. .	. .	. .	. .	3	. .	2
Dixie Medical Center	910	37	5	3	. .	. .	. .	. .	. .	2	. .	1
Not in hospital	152	5	. .	2	. .	. .	. .	. .	. .	1	. .	1
Wayne[1]												
Weber	4,933	316	37	53	. .	1	1	9	10	19	8	5
McKay Dee Hospital	3,704	232	24	44	. .	1	. .	7	9	18	4	4
St. Benedict	1,203	80	12	3	. .	. .	1	2	. .	. .	. .	. .
Not in hospital	26	4	1	6	. .	. .	. .	. .	1	1	4	. .
Out of State	264	32	. .	7	. .	. .	. .	. .	. .	1	5	1

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[1] No hospital in county.

TABLE A-33

INFANT MORTALITY FOR SELECTED CAUSES BY AGE, RACE, AND SEX: UTAH 1979

Cause of Death per Ninth Revision of the International Classification of Diseases	Sex	Total	Race		Age				
			White	Non-white	Under 1 Day	1-6 Days	7-27 Days	Total Under 28 Days	28 Days -1 Year
Total deaths, all causes	T	438	427	11	127	99	52	278	160
	M	264	258	6	70	52	36	158	106
	F	173	168	5	56	47	16	119	54
	*U	1	1	. .	1	. .	. .	1	.
Infectious and parasitic diseases (001-139)	M	2	2	. .	. .	. .	. .	. .	2
	F	1	. .	1	. .	. .	. .	. .	1
Neoplasms (140-239)	M	1	1	. .	. .	. .	. .	. .	1
	F	1	1	. .	. .	1	. .	1	.
Endocrine, nutritional, and metabolic diseases, (240-279)	M	2	2	. .	. .	1	. .	1	1
	F	2	2	. .	1	1	. .	2	. .
Diseases of the nervous system and sense organs, (320-389)	T	12	12	. .	. .	. .	. .	. .	12
Meningitis (320-322)	M	6	6	. .	. .	. .	. .	. .	6
	F	. .	. .	. .	. .	. .	. .	. .	. .
Balance of 320-389	M	3	3	. .	. .	. .	. .	. .	3
	F	3	3	. .	. .	. .	. .	. .	3
Diseases of the respiratory system (460-519)	M	6	4	2	. .	. .	1	1	5
	F	1	1	. .	. .	. .	. .	. .	1
Diseases of the digestive system (520-579)	M	4	3	1	. .	. .	2	2	2
	F	3	2	1	. .	. .	. .	. .	3
Congenital anomalies (740-759)	T	107	105	2	38	27	17	82	25
Anencephalus and similar anomalies (740)	M	5	5	. .	5	. .	. .	5	.
	F	5	5	. .	5	. .	. .	5	. .
Other congenital anomalies of nervous system (742)	M	4	4	.	. .	1	. .	1	3
	F	3	3	. .	2	. .	. .	2	1
Bulbus cordis anomalies and anomalies of cardiac septal closure (745)	M	11	11	. .	1	3	2	6	5
	F	6	5	1	. .	2	. .	2	4
Other congenital anomalies of heart (746)	M	16	15	1	2	9	3	14	2
	F	5	5	. .	. .	3	1	4	1
Other congenital anomalies of circulatory system (747)	M	6	6	. .	1	2	2	5	1
	F	6	6	. .	1	2	2	5	1
Congenital anomalies of respiratory system (748)	M	2	2	. .	1	. .	. .	1	1
	F	3	3	. .	3	. .	. .	3	.
Congenital anomalies of urinary system (753)	M	4	4	. .	4	. .	. .	4	
	F	3	3	. .	3	. .	. .	3	
Other congenital musculoskeletal anomalies (756)	M	6	6	. .	3	3	. .	6	
	F	.	. .	. .	. .	. .	. .	. .	.
Chromosomal anomalies (758)	M	3	3	. .	. .	. .	2	2	1
	F	7	7	. .	1	1	3	5	2
Other and unspecified congenital anomalies (759)	M	2	2	. .	2	. .	. .	2	
	F	5	5	. .	3	1	1	5	. .
	*U	1	1	. .	1	. .	. .	1	. .
Balance of 740-759	M	1	1	. .	. .	. .	1	1	. .
	F	3	3	. .	. .	. .	. .	.	. .
Certain conditions originating in the perinatal period (760-779)	T	191	190	1	85	68	25	178	13
Fetus or newborn affected by maternal complications of pregnancy (761)	M	6	6	. .	5	1	. .	6	.
	F	9	9	. .	7	2	. .	9	. .
Fetus or newborn affected by complications of placenta, cord and membranes (762)	M	4	4	. .	3	1	. .	4	.
	F	2	2	. .	1	1	. .	2	.
Disorders relating to short gestation and unspecified low birth weight (765)	M	20	20	. .	18	1	1	20	. .
	F	8	8	. .	5	3	. .	8	. .
Birth trauma (767)	M	5	5	. .	1	2	1	4	1
	F	4	4	. .	. .	4	. .	4	. .
Intrauterine hypoxia and birth asphyxia (768)	M	5	5	. .	3	2	.	5	. .
	F	5	5	. .	2	2	1	5	. .
Respiratory distress syndrome (769)	M	33	33	. .	12	13	8	33	.
	F	22	22	. .	6	13	3	22	. .
Other respiratory conditions of fetus and newborn (770)	M	9	9	. .	2	2	. .	4	5
	F	19	19	. .	13	3	. .	16	3
Infections specific to the perinatal period (771)	M	6	5	1	1	1	3	5	1
	F	6	6	. .	. .	4	1	5	1
Fetal and neonatal haemorrhage (772)	M	5	5	. .	1	2	2	5	. .
	F	2	2	. .	1	1	. .	2	. .
Haematological disorders of fetus and newborn (776)	M	3	3	. .	1	. .	2	3	. .
	F	2	2	. .	. .	2	. .	2	.
Other and ill-defined conditions originating in the perinatal period (779)	M	5	5	. .	1	1	2	4	1
	F	. .	. .	. .	. .	. .	. .	. .	. .
Balance 760-779	M	9	9	. .	1	6	1	8	1
	F	2	2	. .	1	1	. .	2	. .
Sudden death, cause unknown (798)	M	59	58	1	1	1	1	3	56
	F	26	24	2	. .	. .	3	3	23
Accidents (E800-E949)	M	6	6	. .	. .	. .	1	1	5
	F	5	5	.	. .	. .	. .	. .	5
Residual	M	5	5	.	1	. .	1	2	3
	F	4	4	. .	1		1	2	.

*U = sex unknown.

TABLE A-34

RESIDENT FETAL DEATHS BY SEX AND SELECTED CAUSE: UTAH, 1979

Cause of Fetal Death per Ninth Revision of the International Classification of Diseases		Total	Sex of Fetus		
			Male	Female	Unknown
740-779.9	Total fetal deaths	317	143	172	2
740-759	Congenital anomalies	21	7	14	. .
740	Anencephalus	6	2	4	. .
741	Spina bifida	2	. .	2	. .
742	Other congenital anomalies of nervous system	3	. .	3	. .
746	Other congenital anomalies of heart	1	. .	1	. .
753	Congenital anomalies of urinary system	2	1	1	. .
758	Chromosomal anomalies	1	1	. .	. .
759	Other and unspecified congenital anomalies	6	3	3	. .
760-760.8	Fetus or newborn affected by maternal conditions which may be unrelated to present pregnancy	21	8	13	. .
760.0	Maternal hypertensive disorders	14	6	8	. .
760.1	Maternal renal and urinary tract diseases	1	1	. .	. .
760.2	Maternal infections	2	. .	2	. .
760.5	Maternal injury	2	. .	2	. .
760.8	Other	2	1	1	. .
761-761.8	Fetus or newborn affected by maternal complications of pregnancy	34	17	17	. .
761.0	Incompetent cervix	1	1	. .	. .
761.1	Premature rupture of membranes	9	8	1	. .
761.3	Polyhydrammios	2	. .	2	. .
761.5	Multiple pregnancy	18	6	12	. .
761.7	Malpresentation before labour	1	1	. .	. .
761.8	Other	3	1	2	. .
762-762.7	Fetus or newborn affected by complications of placenta, cord and membranes	135	70	65	. .
762.0	Placenta praevia	1	1	. .	. .
762.1	Other forms of placental separation and haemorrhage	34	19	15	. .
762.2	Other and unspecified morphological and functional abnormalities of placenta	22	13	9	. .
762.4	Prolapsed cord	4	1	3	. .
762.5	Other compression of umbilical cord	54	25	29	. .
762.6	Other and unspecified conditions of umbilical cord	17	10	7	. .
762.7	Chroioamnionitis	3	1	2	. .
763	Fetus or newborn affected by other complications of labour and delivery	2	. .	2	. .
765	Disorders relating to short gestation and unspecified low birth weight	7	2	5	. .
767	Birth trauma	1	. .	1	. .
773-774	Haemolytic disease of fetus or newborn, due to isoimmunization, and other perinatal jaundice	6	5	1	. .
775	Endocrine and metabolic disturbances specific to the fetus and newborn	4	1	3	. .
779	Other and ill-defined conditions originating in the perinatal period	58	24	32	2
	Other	28	9	19	. .

TABLE A-35

FETAL DEATHS BY AGE AND RESIDENCE OF MOTHER: UTAH, 1979

Mother's Residence	Total	Fetal Deaths by Age of Mother								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45+	Unknown
Total	317	1	39	93	90	51	30	10	1	2
District 1	19	. .	2	9	5	3	. .	. .	. .	. .
Box Elder	7	. .	1	3	2	1	. .	. .	. .	. .
Cache	12	. .	1	6	3	2	. .	. .	. .	. .
Rich	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 2N	62	1	6	22	13	13	5	2	. .	. .
Davis	26	1	1	10	4	7	1	2	. .	. .
Morgan	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Weber	36	. .	5	12	9	6	4	. .	. .	. .
District 2S	136	. .	20	31	41	24	14	5	. .	1
Salt Lake	131	. .	20	28	40	24	14	4	. .	1
Tooele	5	. .	. .	3	1	. .	. .	1	. .	. .
District 3	61	. .	5	22	19	7	4	3	1	. .
Summit	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Utah	60	. .	5	21	19	7	4	3	1	. .
Wasatch	1	. .	. .	1	. .	. .	. .	. .	. .	. .
District 4	8	. .	2	2	4	. .	. .	. .	. .	. .
Juab	1	. .	. .	. .	1	. .	. .	. .	. .	. .
Millard	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Piute	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sanpete	3	. .	1	1	1	. .	. .	. .	. .	. .
Sevier	3	. .	1	. .	2	. .	. .	. .	. .	. .
Wayne	1	. .	. .	1	. .	. .	. .	. .	. .	. .
District 5	11	. .	1	3	1	2	4	. .	. .	. .
Beaver	1	. .	. .	. .	. .	. .	1	. .	. .	. .
Garfield	2	. .	. .	1	. .	1	. .	. .	. .	. .
Iron	6	. .	1	2	. .	. .	3	. .	. .	. .
Kane	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Washington	2	. .	. .	. .	1	1	. .	. .	. .	. .
District 6	8	. .	. .	2	5	. .	1	. .	. .	. .
Daggett	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Duchesne	5	. .	. .	. .	4	. .	1	. .	. .	. .
Uintah	3	. .	. .	2	1	. .	. .	. .	. .	. .
District 7	12	. .	3	2	2	2	2	. .	. .	1
Carbon	6	. .	1	. .	1	2	1	. .	. .	1
Emery	3	. .	1	1	1	. .	. .	. .	. .	. .
Grand	2	. .	1	1	. .	. .	. .	. .	. .	. .
San Juan	1	. .	. .	. .	. .	. .	1	. .	. .	. .

TABLE A-36

INFANT, NEONATAL, AND PERINATAL MORTALITY BY RESIDENCE OF MOTHER: UTAH, 1979

District and County	Infant Mortality						
	Total Deaths Under 1 Year of Age (Excluding Fetal)	28 Days to Under 1 Year	Neonatal Mortality				
				Perinatal Mortality			
			7-27 Days	1-6 Days	1-24 Hours	Under 1 Hr.	Fetal Deaths
Total	438	160	52	99	75	52	317
District 1	26	7	3	5	5	6	19
Box Elder	8	1	3	1	1	2	7
Cache	17	6	. .	4	4	3	12
Rich	1	. .	. .	. .	. .	1	. .
District 2N	84	27	16	18	12	11	62
Davis	40	13	6	10	4	7	26
Morgan	1	. .	. .	. .	1	. .	. .
Weber	43	14	10	8	7	4	36
District 2S	173	76	14	29	29	25	136
Salt Lake	162	68	12	29	28	25	131
Tooele	11	8	2	. .	1	. .	5
District 3	100	26	9	41	19	5	61
Summit	1	. .	. .	1	. .	. .	. .
Utah	95	25	9	38	18	5	60
Wasatch	4	1	. .	2	1	. .	1
District 4	12	6	3	2	1	. .	8
Juab	. .	. .	. .	. .	. .	. .	1
Millard	2	1	. .	1	. .	. .	. .
Piute	. .	. .	. .	. .	. .	. .	. .
Sanpete	3	1	2	. .	. .	. .	3
Sevier	7	4	1	1	1	. .	3
Wayne	. .	. .	. .	. .	. .	. .	1
District 5	18	4	2	3	5	4	11
Beaver	1	. .	1	. .	. .	. .	1
Garfield	1	. .	. .	1	. .	. .	2
Iron	9	3	1	2	2	1	6
Kane	. .	. .	. .	. .	. .	. .	. .
Washington	7	1	. .	. .	3	3	2
District 6	12	4	3	1	3	1	8
Daggett	. .	. .	. .	. .	. .	. .	. .
Duchesne	4	1	1	. .	1	1	5
Uintah	8	3	2	1	2	. .	3
District 7	13	10	2	. .	1	. .	12
Carbon	2	2	. .	. .	. .	. .	6
Emery	4	2	1	. .	1	. .	3
Grand	3	3	. .	. .	. .	. .	2
San Juan	4	3	1	. .	. .	. .	1

TABLE A-37

DEATHS BY AGE, SEX, AND RESIDENCE: UTAH, 1979

District and County	Total			Deaths by Age Group and Sex																	
				Under 1		1-4		5-9		10-14		15-19		20-24		25-29		30-34		35-39	
	Total	Male	Female	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Total	7,871	4,426	3,445	265	173	43	44	24	17	24	15	79	30	137	29	95	51	91	30	71	37
District 1	495	285	210	16	10	1	5	2	. .	2	. .	3	2	8	5	4	1	4	3	1	2
Box Elder	191	107	84	4	4	. .	1	2	. .	. .	. .	1	2	3	1	2	. .	3	. .	. .	1
Cache	288	169	119	11	6	1	3	. .	. .	2	. .	2	. .	5	3	2	1	1	3	1	1
Rich	16	9	7	1	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .
District 2N	1,491	850	641	50	34	12	4	5	5	5	4	21	4	28	3	15	10	16	7	9	7
Davis	505	284	221	25	15	6	3	1	4	2	1	10	3	15	2	2	4	4	2	5	3
Morgan	33	19	14	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .
Weber	953	547	406	25	18	6	1	4	1	3	3	11	1	12	1	13	6	12	5	4	4
District 2S	3,619	1,976	1,643	99	74	17	19	8	6	9	7	30	13	61	16	45	28	45	15	39	21
Salt Lake	3,466	1,890	1,576	92	70	17	19	8	6	9	7	27	10	57	16	40	26	44	15	38	18
Tooele	153	86	67	7	4	. .	. .	. .	. .	. .	. .	3	3	4	. .	5	2	1	. .	1	3
District 3	1,009	565	444	63	37	9	8	4	4	4	. .	10	6	15	3	11	8	12	2	7	5
Summit	53	30	23	1	. .	. .	1	. .	. .	1	. .	. .	. .	2	. .	2	. .	2	. .	. .	. .
Utah	895	502	393	61	34	9	7	4	3	3	. .	10	6	12	3	8	8	9	2	7	5
Wasatch	61	33	28	1	3	. .	. .	. .	1	. .	. .	. .	. .	1	. .	1	. .	1	. .	. .	. .
District 4	376	214	162	7	5	1	2	2	. .	1	1	3	1	4	. .	3	1	2	1	4	. .
Juab	43	26	17	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	1	. .	. .	1	. .	. .	1	. .
Millard	70	42	28	1	1	1	1	. .	. .	1	. .	2	. .	1	. .	. .	. .	1	. .	1	. .
Piute	12	7	5	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sanpete	123	69	54	3	. .	. .	1	. .	. .	. .	. .	. .	. .	2	. .	. .	. .	1	. .	1	. .
Sevier	115	61	54	3	4	. .	. .	1	. .	. .	1	1	1	. .	. .	3	. .	. .	. .	1	. .
Wayne	13	9	4	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .
District 5	392	224	168	15	3	1	3	. .	1	2	1	2	3	6	. .	4	2	3	. .	2	. .
Beaver	52	27	25	1	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .
Garfield	28	18	10	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .
Iron	104	59	45	8	1	1	1	. .	1	. .	1	. .	2	. .	. .	3	1	1	. .	. .	. .
Kane	24	15	9	. .	. .	. .	1	. .	. .	1	. .	1	. .	1	. .	. .	. .	. .	. .	. .	. .
Washington	184	105	79	5	2	. .	1	. .	. .	1	. .	. .	1	5	. .	1	1	2	. .	1	. .
District 6	181	118	63	8	4	. .	1	1	1	. .	1	4	1	6	. .	5	1	2	1	3	1
Daggett	2	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Duchesne	74	51	23	4	. .	. .	1	1	. .	. .	. .	. .	1	4	. .	. .	1	1	. .	. .	. .
Uintah	105	65	40	4	4	. .	. .	. .	1	. .	1	4	. .	2	. .	5	. .	1	1	3	1
District 7	308	194	114	7	6	2	2	2	. .	1	1	6	. .	9	2	8	. .	7	1	6	1
Carbon	154	99	55	1	1	. .	1	1	. .	1	1	3	. .	. .	. .	4	. .	4	1	4	1
Emery	59	41	18	3	1	1	. .	. .	. .	. .	. .	. .	. .	4	1	2	. .	. .	. .	1	. .
Grand	48	22	26	1	2	1	. .	. .	. .	. .	. .	1	. .	3	. .	. .	. .	. .	. .	. .	. .
San Juan	47	32	15	2	2	. .	1	1	. .	. .	. .	2	. .	2	1	2	. .	3	. .	1	. .

TABLE A-37--Continued

DEATHS BY AGE, SEX, AND RESIDENCE: UTAH, 1979

District and County	Deaths by Age Group and Sex																					
	40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+		Not Stated	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Total	85	39	123	66	176	96	295	175	377	209	504	284	564	367	488	433	479	496	504	853	2	1
District 1	5	1	8	3	8	7	15	3	18	11	30	19	43	23	43	32	28	31	46	52	. .	. .
Box Elder	4	1	4	1	5	3	7	1	8	7	11	10	12	5	17	12	9	15	15	20	. .	. .
Cache	1	. .	4	2	3	4	7	1	9	4	18	9	31	17	25	20	16	15	30	30	. .	. .
Rich	. .	. .	. .	. .	. .	. .	1	1	1	. .	1	. .	. .	1	1	. .	3	1	1	2	. .	. .
District 2N	22	5	22	15	30	21	70	40	76	35	99	49	102	68	87	89	88	83	92	158	1	. .
Davis	10	1	10	7	8	4	27	12	23	12	27	21	30	17	19	24	26	31	34	55	. .	. .
Morgan	. .	. .	2	. .	. .	. .	1	. .	. .	2	3	1	2	1	4	2	5	3	1	4	. .	. .
Weber	12	4	10	8	22	17	42	28	53	21	69	27	70	50	64	63	57	49	57	99	1	. .
District 2S	39	19	67	29	93	43	147	83	176	104	229	132	254	171	197	194	200	244	220	425	1	. .
Salt Lake	39	19	65	26	88	40	140	77	167	101	219	131	246	163	189	187	194	235	210	410	1	. .
Tooele	. .	. .	2	3	5	3	7	6	9	3	10	1	8	8	8	7	6	9	10	15	. .	. .
District 3	4	7	13	8	22	11	23	15	47	26	55	39	66	48	76	55	62	67	62	95	. .	. .
Summit	. .	. .	1	1	. .	. .	1	1	4	. .	2	3	3	1	4	11	2	1	5	4	. .	. .
Utah	4	6	12	7	22	11	21	14	40	25	49	36	58	45	64	37	56	61	53	83	. .	. .
Wasatch	. .	1	. .	. .	. .	. .	1	. .	3	1	4	. .	5	2	8	7	4	5	4	8	. .	. .
District 4	4	1	4	2	2	4	3	3	13	9	25	14	30	20	29	26	39	21	38	50	. .	1
Juab	1	. .	2	. .	. .	. .	. .	. .	2	2	4	3	3	1	3	5	5	1	3	4	. .	. .
Millard	. .	. .	. .	. .	1	1	1	1	3	4	3	2	7	2	6	4	7	2	6	9	. .	1
Piute	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	1	1	1	1	. .	2	2	1	2	. .	. .	. .
Sanpete	2	1	1	. .	1	2	1	1	3	3	7	3	8	9	10	7	17	9	12	18	. .	. .
Sevier	1	. .	. .	2	. .	1	1	1	5	. .	9	5	10	7	8	8	7	7	11	17	. .	. .
Wayne	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	1	. .	2	. .	1	1	4	2	. .	. .
District 5	3	1	2	1	8	3	14	14	17	10	27	11	32	19	26	27	35	30	25	39	. .	. .
Beaver	. .	1	. .	. .	. .	1	2	3	3	. .	1	2	3	4	2	5	11	5	3	4	. .	. .
Garfield	. .	. .	. .	. .	1	. .	1	. .	1	. .	3	. .	2	2	5	3	3	2	. .	3	. .	. .
Iron	. .	. .	. .	. .	6	1	6	3	3	1	7	4	5	3	9	6	3	7	7	13	. .	. .
Kane	1	. .	1	1	. .	. .	1	1	1	2	3	. .	. .	1	1	. .	3	1	1	2	. .	. .
Washington	2	. .	1	. .	1	1	4	7	9	7	13	5	22	9	9	13	15	15	14	17	. .	. .
District 6	3	2	4	3	7	3	5	7	12	5	13	6	13	7	15	4	9	6	8	9	. .	. .
Daggett	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .
Duchesne	1	1	1	1	1	. .	3	2	6	1	7	1	8	4	6	2	4	3	4	5	. .	. .
Uintah	2	1	3	2	5	3	2	5	6	4	6	5	5	3	8	2	5	3	4	4	. .	. .
District 7	5	3	3	5	6	4	18	10	18	9	26	14	24	11	15	6	18	14	13	25	. .	. .
Carbon	1	2	1	3	2	2	10	4	9	6	17	6	14	6	10	1	9	8	8	12	. .	. .
Emery	2	. .	. .	1	2	1	3	1	4	. .	3	1	5	2	3	2	4	1	4	7	. .	. .
Grand	. .	1	. .	1	. .	1	3	3	4	1	3	4	3	2	1	3	1	4	1	4	. .	. .
San Juan	2	. .	2	. .	2	. .	2	2	1	2	3	3	2	1	1	. .	4	1	. .	2	. .	. .

TABLE A-37

DEATHS BY RACE, SEX, AND RESIDENCE: UTAH, 1979

District and County of Residence	Total	Deaths by Race and Sex														
		White			Black			Indian			Other Nonwhite			Race Not Stated		
		Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total	7,871	7,705	4,322	3,383	37	25	12	75	42	33	51	35	16	3	2	1
District 1	495	487	280	207	. .	. .	. .	4	2	2	4	3	1	. .	. .	. .
Box Elder	191	185	103	82	. .	. .	. .	3	1	2	3	3	. .	. .	. .	. .
Cache	288	286	168	118	. .	. .	. .	1	1	. .	1	. .	1	. .	. .	. .
Rich	16	16	9	7	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 2N	1,491	1,451	823	628	20	14	6	7	4	3	13	9	4	. .	. .	. .
Davis	505	497	278	219	3	3	. .	. .	. .	. .	5	3	2	. .	. .	. .
Morgan	33	33	19	14	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Weber	953	921	526	395	17	11	6	7	4	3	8	6	2	. .	. .	. .
District 2S	3,619	3,553	1,934	1,619	17	11	6	14	8	6	33	22	11	2	1	1
Salt Lake	3,466	3,404	1,850	1,554	17	11	6	10	6	4	33	22	11	2	1	1
Tooele	153	149	84	65	. .	. .	. .	4	2	2	. .	. .	. .	. .	. .	. .
District 3	1,009	1,005	562	443	. .	. .	. .	3	2	1	. .	. .	. .	1	1	. .
Summit	53	52	29	23	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	1	. .
Utah	895	892	500	392	. .	. .	. .	3	2	1	. .	. .	. .	. .	. .	. .
Wasatch	61	61	33	28	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 4	376	371	213	158	. .	. .	. .	5	1	4	. .	. .	. .	. .	. .	. .
Juab	43	42	26	16	. .	. .	. .	1	. .	1	. .	. .	. .	. .	. .	. .
Millard	70	69	42	27	. .	. .	. .	1	. .	1	. .	. .	. .	. .	. .	. .
Piute	12	12	7	5	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sanpete	123	123	69	54	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sevier	115	112	60	52	. .	. .	. .	3	1	2	. .	. .	. .	. .	. .	. .
Wayne	13	13	9	4	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 5	392	390	223	167	. .	. .	. .	2	1	1	. .	. .	. .	. .	. .	. .
Beaver	52	52	27	25	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Garfield	28	28	18	10	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Iron	104	102	58	44	. .	. .	. .	2	1	1	. .	. .	. .	. .	. .	. .
Kane	24	24	15	9	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Washington	184	184	105	79	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 6	181	164	110	54	. .	. .	. .	17	8	9	. .	. .	. .	. .	. .	. .
Daggett	2	2	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Duchesne	74	73	51	22	. .	. .	. .	1	. .	1	. .	. .	. .	. .	. .	. .
Uintah	105	89	57	32	. .	. .	. .	16	8	8	. .	. .	. .	. .	. .	. .
District 7	308	284	177	107	. .	. .	. .	23	16	7	1	1	. .	. .	. .	. .
Carbon	154	153	98	55	. .	. .	. .	. .	. .	. .	1	1	. .	. .	. .	. .
Emery	59	58	40	18	. .	. .	. .	1	1	. .	. .	. .	. .	. .	. .	. .
Grand	48	46	21	25	. .	. .	. .	2	1	1	. .	. .	. .	. .	. .	. .
San Juan	47	27	18	9	. .	. .	. .	20	14	6	. .	. .	. .	. .	. .	. .

TABLE A-39

DEATHS BY PLACE WHERE DEATH OCCURRED IN COUNTY OF OCCURRENCE: UTAH, 1979

County of Occurrence	Total	Hospital	Home	Enroute Hospital	Nursing Home	Clinic, Dr.'s Off., Maternal Home	Other Location	Not Stated
Total	8,275	4,237	1,733	557	1,456	8	282	2
Beaver	39	27	8	3	. .	. .	1	. .
Box Elder	178	59	35	15	54	. .	15	. .
Cache	255	102	63	30	53	. .	6	1
Carbon	155	81	9	32	29	. .	4	. .
Daggett	1	. .	. .	. .	. .	. .	1	. .
Davis	446	197	105	28	105	1	10	. .
Duchesne	79	30	20	14	5	. .	10	. .
Emery	26	. .	11	. .	5	2	8	. .
Garfield	24	11	5	7	. .	. .	1	. .
Grand	54	29	10	5	. .	. .	10	. .
Iron	96	39	34	3	13	2	5	. .
Juab	38	16	10	2	1	. .	9	. .
Kane	27	15	4	4	1	. .	3	. .
Millard	65	34	13	4	. .	. .	14	. .
Morgan	15	. .	10	. .	. .	. .	5	. .
Piute	4	. .	3	. .	. .	. .	1	. .
Rich	3	. .	2	. .	. .	. .	1	. .
Salt Lake	4,102	2,281	807	180	770	1	63	. .
San Juan	51	16	9	4	6	. .	16	. .
Sanpete	85	38	33	3	1	. .	10	. .
Sevier	119	37	28	7	36	. .	11	. .
Summit	42	13	13	2	. .	. .	14	. .
Tooele	127	34	21	39	21	1	11	. .
Uintah	62	28	19	11	. .	. .	4	. .
Utah	907	523	182	50	129	. .	23	. .
Wasatch	63	32	15	7	4	. .	5	. .
Washington	188	73	45	22	42	. .	5	1
Wayne	10	. .	5	. .	. .	. .	5	. .
Weber	1,014	522	214	85	181	1	11	. .

TABLE A-40

DEATHS BY AGE, SEX, AND RACE: UTAH, 1979

Age	Total Deaths	Deaths by Race and Sex							
		White		Black		Indian		Other Nonwhite	
		Male	Female	Male	Female	Male	Female	Male	Female
Total	[2]7,871	[2]4,322	3,383	25	12	42	33	37	17
Under 1 year [1]	[3]438	258	168	3	1	3	4	. .	. .
Under 1 month [1]	[3]278	156	119	1	. .	1	. .	. .	. .
Under 1 week [1]	[3]230	125	103	. .	. .	1	. .	. .	. .
Under 1 day [1]	[3]127	69	56	. .	. .	1	. .	. .	. .
Under 1 hour [1]	[3]52	24	26	. .	. .	1	. .	. .	. .
1-4	87	42	39	. .	. .	1	4	. .	1
5-9	41	24	17	. .	. .	. .	. .	. .	. .
10-14	39	24	13	. .	. .	. .	2	. .	. .
15-19	109	75	28	1	. .	2	2	1	. .
20-24	166	124	26	1	1	12	2	. .	. .
25-29	146	89	49	1	. .	4	. .	1	. .
30-34	121	85	28	. .	. .	3	2	3	. .
35-39	108	66	35	2	. .	2	2	1	. .
40-44	124	82	37	1	. .	2	2	. .	. .
45-49	189	119	64	2	1	1	. .	1	. .
50-54	[3]272	167	89	1	1	3	5	4	1
55-59	470	290	168	1	2	1	3	3	2
60-64	586	374	206	1	1	2	1	. .	1
65-69	788	496	279	4	1	2	3	2	1
70-74	[3]931	554	365	3	1	1	. .	5	1
75-79	921	482	431	1	. .	. .	. .	5	2
80-84	975	473	495	. .	. .	3	. .	3	1
85-89	787	297	482	1	2	. .	. .	3	2
90-94	440	153	280	1	. .	. .	. .	4	2
95-99	114	36	74	1	1	. .	1	1	. .
100 and over	16	7	9	. .	. .	. .	. .	. .	. .
Not stated	3	2	1	. .	. .	. .	. .	. .	. .

[1] These totals include all deaths under unit specified.

[2] Includes 3 deaths sex unknown.

[3] Includes 1 death sex unknown.

TABLE A-41

DEATHS BY MONTH OF OCCURRENCE AND RESIDENCE OF DECEASED: UTAH, 1979

District and County of Residence	Total	Deaths by Month of Occurrence											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Total	7,871	699	604	706	620	599	678	647	648	632	657	653	728
District 1	495	57	42	56	39	37	44	31	40	28	34	45	42
Box Elder	191	23	15	20	15	14	16	12	15	13	14	18	16
Cache	288	30	26	33	23	23	28	19	23	15	19	24	25
Rich	16	4	1	3	1		. .	. .	2	. .	1	3	1
District 2N	1,491	131	108	139	126	117	123	115	129	119	115	129	140
Davis	505	38	36	50	49	40	44	32	54	33	40	49	40
Morgan	33	4	3	2	1	1	4	2	3	2	3	3	5
Weber	953	89	69	87	76	76	75	81	72	84	72	77	95
District 2S	3,619	314	283	311	293	265	303	307	307	280	328	295	333
Salt Lake	3,466	302	264	305	283	252	296	287	293	271	314	283	316
Tooele	153	12	19	6	10	13	7	20	14	9	14	12	17
District 3	1,009	80	89	72	79	85	94	84	72	85	74	87	108
Summit	53	3	6	4	9	4	4	4	3	4	1	4	7
Utah	895	71	81	63	67	75	84	77	65	76	70	74	92
Wasatch	61	6	2	5	3	6	6	3	4	5	3	9	9
District 4	376	29	24	31	27	26	38	41	37	33	29	33	28
Juab	43	. .	8	6	3	. .	2	6	2	7	2	5	2
Millard	70	1	2	6	4	5	8	14	8	6	3	7	6
Piute	12	. .	2	. .	2	1	1	1	3	1	1	. .	. .
Sanpete	123	11	8	10	10	10	11	10	15	9	10	8	11
Sevier	115	14	4	9	8	8	13	9	9	10	12	10	9
Wayne	13	3	. .	. .	. .	2	3	1	. .	. .	1	3	. .
District 5	392	37	26	57	26	33	32	29	23	38	32	29	30
Beaver	52	2	5	9	5	4	1	6	1	13	3	2	1
Garfield	28	2	1	4	1	4	4	1	2	. .	3	3	3
Iron	104	9	7	20	8	8	8	8	8	6	7	6	9
Kane	24	3	1	3	. .	1	3	3	2	1	3	2	2
Washington	184	21	12	21	12	16	16	11	10	18	16	16	15
District 6	181	12	9	17	10	16	20	16	15	14	17	17	18
Daggett	2	. .	. .	. .	. .	. .	1	. .	. .	. .	1	. .	. .
Duchesne	74	5	2	12	2	5	7	6	7	4	8	7	9
Uintah	105	7	7	5	8	11	12	10	8	10	8	10	9
District 7	308	39	23	23	20	20	24	24	25	35	28	18	29
Carbon	154	15	12	12	10	9	9	14	15	18	16	9	15
Emery	59	10	4	3	5	6	5	4	4	11	2	3	2
Grand	48	6	3	4	4	2	5	2	4	3	5	4	6
San Juan	47	8	4	4	1	3	5	4	2	3	5	2	6

TABLE A-42

DEATHS BY SELECTED CAUSES AND COUNTY OF RESIDENCE: UTAH, 1979

Cause of Death Ninth Revision International Classification of Disease	Total	Deaths by County of Residence																												
		Beaver	Box Elder	Cache	Carbon	Daggett	Davis	Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane	Millard	Morgan	Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier	Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
All causes	7,871	52	191	288	154	2	505	74	59	28	48	104	43	24	70	33	12	16	3,466	47	123	115	53	153	105	895	61	184	13	953
Infectious and parasitic diseases (001-139)	52	. .	. .	1	1	. .	4	. .	1	1	. .	. .	1	. .	. .	. .	. .	. .	25	2	4	. .	. .	1	2	4	. .	. .	. .	5
Intestinal infections (007-009)	2	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .
Tuberculosis (010-018)	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Syphilis and other venereal diseases (090-097)	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Remainder of 001-139	48	. .	. .	1	1	. .	4	. .	. .	1	. .	. .	1	. .	. .	. .	. .	. .	24	2	4	. .	. .	1	2	3	. .	. .	. .	4
Malignant neoplasms (140-208)	1,314	5	32	44	33	. .	63	12	7	5	8	16	4	5	12	2	1	1	612	2	22	24	10	24	18	140	10	33	. .	169
Malignant neoplasm of lip, oral cavity and pharynx (140-149)	14	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	7	. .	1	1	. .	. .	. .	1	. .	1	. .	2
Malignant neoplasm of digestive organs and peritoneum (150-159)	348	4	3	12	11	. .	22	3	2	3	1	4	. .	1	3	1	. .	. .	170	1	6	4	3	6	7	35	2	6	. .	38
Malignant neoplasm of respiratory and intrathoracic organs (160-165)	253	. .	7	3	10	. .	8	4	1	1	5	3	1	1	2	. .	. .	1	136	. .	. .	3	. .	2	2	19	1	8	. .	35
Malignant neoplasms of bone, connective tissue, skin, breast, genitourinary organs, other and unspecified sites (170-199)	207	1	4	7	5	. .	10	3	2	1	. .	4	2	1	3	. .	1	. .	76	. .	3	6	2	10	5	30	2	3	. .	26
Malignant neoplasm of breast (174-175)	120	. .	5	3	2	. .	6	[illegible]	. .	. .	. .	2	. .	. .	1	. .	. .	. .	58	. .	2	. .	1	1	2	11	2	3	. .	19
Malignant neoplasm of genitourinary organs (179-187)	167	. .	8	11	3	. .	7	1	. .	. .	2	2	1	1	2	. .	. .	. .	69	1	6	8	. .	3	1	16	1	[illegible]	. .	18
Malignant neoplasm of bladder and kidney (188-189)	47	. .	2	3	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	1	1	. .	. .	23	. .	. .	1	1	. .	1	3	. .	2	. .	8
Malignant neoplasm of lymphatic and haematopoietic tissue (excluding leukaemia) (200-203)	98	. .	2	1	1	. .	6	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	44	. .	3	. .	1	2	. .	19	1	. .	. .	[illegible]
Leukaemia (204-208)	60	. .	1	4	1	. .	3	. .	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	29	. .	1	1	. .	. .	. .	6	1	5	. .	6
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain and unspecified behavior (210-239)	28	. .	. .	2	. .	. .	5	. .	. .	. .	1	. .	. .	. .	. .	1	. .	. .	8	. .	2	. .	. .	. .	. .	4	. .	. .	. .	5
Diabetes mellitus (250)	176	. .	6	7	4	. .	15	1	1	. .	1	1	. .	. .	. .	1	. .	1	70	2	. .	3	2	9	3	24	. .	4	1	20
Anaemia (280-285)	21	. .	. .	1	. .	. .	1	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	13	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	4
Meningitis (320-322)	10	. .	1	. .	. .	. .	2	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	1	3	. .	. .	. .	1
Major cardiovascular diseases (390-448)	3,598	28	92	141	65	2	223	31	26	12	19	49	25	6	27	18	6	9	1,587	15	65	50	22	64	45	397	34	89	10	441
Rheumatic fever (390-398)	91	. .	3	2	2	. .	3	. .	. .	. .	1	2	. .	1	1	. .	. .	. .	45	2	. .	. .	1	. .	2	9	. .	1	. .	16
Essential hypertension and hypertensive renal disease (401, 403)	19	. .	3	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	4	. .	1	. .	. .	. .	1	3	. .	. .	. .	6
Hypertensive heart disease with and without renal disease (402, 404)	93	. .	2	9	. .	. .	9	. .	1	. .	. .	. .	. .	. .	1	. .	1	. .	48	1	2	1	. .	. .	1	7	. .	1	1	8
Ischaemic heart disease (410-414)	1,886	14	41	70	52	1	111	18	18	6	11	24	15	7	13	14	3	2	766	6	31	28	14	51	25	219	19	[illegible]	[illegible]	265
Other diseases of endocardium (424)	31	. .	1	. .	. .	. .	[illegible]	. .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
All other forms of heart disease (415-423, 425-429)	699	4	11	17	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Cerebrovascular disease (430-438)	628	10	23	40	6	. .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Atherosclerosis (440)	81	. .	5	5	1	. .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Other diseases of arteries, arterioles, and capillaries (441-448)	70	. .	3	2	2	. .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Remainder 390-448	51	1	1	3	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

	Total	Beaver	Box Elder	Cache	Carbon	Daggett	Davis	Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane	Millard	Morgan	Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier	Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
Acute bronchitis and bronchiolitis (466)	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Pneumonia and influenza (480-487)	232	2	5	7	5	. .	19	1	2	1	. .	4	1	2	3	. .	. .	. .	103	1	5	6	2	1	1	24	3	4	. .	30
Pneumonia (480-486)	224	2	4	7	5	. .	19	1	2	1	. .	4	1	2	2	. .	. .	. .	100	1	5	4	2	1	1	23	3	4	. .	30
Influenza (487)	8	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	3	. .	. .	2	. .	. .	. .	1	. .	. .	. .	. .
Bronchitis, emphysema, and asthma (490-493)	107	. .	3	3	1	. .	7	. .	1	2	1	3	1	. .	4	1	.		45	1	2	1	. .	3	. .	12	1	2	. .	13
Bronchitis (490-491)	20	. .	. .	1	. .	. .	4	. .	. .	1	. .	. .	. .	. .	. .	. .	.	.	9	. .	. .	. .	. .	1	. .	3	. .	. .	. .	1
Emphysema (492)	73	. .	1	1	. .	. .	1	. .	1	1	1	2	1	. .	4	1	.	.	35	1	1	1	. .	2	. .	9	1	1	. .	8
Asthma (493)	14	. .	2	1	1	. .	2	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	1	. .	1	. .	. .	. .	. .	. .	. .	1	. .	4
Peptic ulcer (531-533)	26	1	. .	1	. .	. .	2	. .	. .	1	1	1	. .	. .	. .	. .	. .	. .	12	. .	1	. .	. .	. .	. .	2	. .	. .	. .	4
Hernia of abdominal cavity and intestinal obstruction without mention of hernia (550-553, 560)	25	1	. .	. .	1	. .	1	. .	. .	. .	1	. .	. .	. .	1	. .	1	.	12	.	. .	. .	. .	1	. .	1	. .	. .	. .	5
Chronic liver disease and cirrhosis (571)	143	. .	1	6	3	. .	7	1	3	. .	1	2	1	2	1	. .	. .	. .	71	. .	1	. .	1	2	6	5	1	2	. .	26
Cholelithiasis and other disorder of gallbladder (574-575)	16	. .	1	1	.	. .	2	. .	1	. .	. .	1	. .	. .	. .	. .	. .	1	3	. .	. .	. .	. .	1	. .	. .	1	1	. .	3
Nephritis, nephrotic syndrome and nephrosis (580-589)	60	. .	3	1	2	. .	1	3	. .	. .	. .	2	. .	. .	1	. .	1	. .	24	1	2	3	1	3	2	6	. .	. .	. .	4
Infections of kidney (590)	11	. .	1	2	. .	. .	1	1	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	5	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Hyperplasia of prostate (600)	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Complications of pregnancy, childbirth, and the puerperium (630-676)	6	. .	. .	2	. .	. .	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	.
Congenital anomalies (740-759)	135	. .	5	7	. .	. .	20	1	2	. .	1	. .	1	. .	1	1	. .	1	50	. .	1	. .	. .	2	3	26	2	. .	. .	11
Certain conditions originating in the perinatal period (760-779)	192	1	3	7	. .	. .	13	2	. .	1	. .	6	. .	. .	. .	. .	. .	1	63	. .	2	5	1	3	2	51	1	6	. .	24
Symptoms, signs, and ill-defined conditions (780-799)	154	. .	1	6	1	. .	8	2	1	. .	2	2	. .	. .	3	1	. .	. .	63	4	. .	3	. .	6	. .	27	1	2	. .	21
Accidents (E800-E949)	622	10	21	22	12	. .	44	10	6	. .	6	6	7	5	8	4	1	1	246	13	8	8	4	21	10	62	2	20	. .	65
Motor vehicle accidents (E810-E825)	335	9	10	12	3	. .	25	6	3	. .	4	3	3	2	3	2	1	1	136	7	4	2	3	13	6	38	1	9	. .	29
All other accidents	287	1	11	10	9	. .	19	4	3	. .	2	3	4	3	5	2	. .	. .	110	6	4	6	1	8	4	24	1	11	. .	36
Suicide and self-inflicted injury (E950-E959)	179	.	2	5	6	. .	9	3	1	1	2	1	. .	1	2	. .	. .	. .	85	2	1	3	4	4	5	21	. .	4	. .	17
Homicide and death by legal intervention (E960-E978)	62	. .	1	1	1	. .	5	.	3	. .	1	1	. .	. .	1	. .	. .	. .	31	1	. .	. .	1	. .	1	6	. .		1	7
Injury undetermined whether accidentally or purposely inflicted and injury resulting from operations of war (E980-E999)	40	. .	1	1	1	. .	4	. .	1	. .	. .	1	. .	. .	1	. .	. .	. .	18	1	. .	. .	. .	1	1	4	. .	. .	. .	5
All other causes	658	4	12	20	18	. .	47	5	3	3	3	8	2	3	4	4	2	1	314	2	7	8	5	7	5	75	5	17	1	73

TABLE A-43

RESIDENT DEATHS BY SELECTED CAUSE AND AGE: UTAH, 1979

ICDA Code 9th Rev.	Cause of Death	All Ages		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75 & Over
		Number	Rate[1]										
	All causes[2]	7,871	575.8	438	87	80	275	267	232	461	1,056	1,719	3,25
007-009	Certain other intestinal infections	2	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	1
010-018	Tuberculosis	1	. .	. .	. .	. .	. .	. .	. .	. .	1	.	. .
090-097	Syphilis	1	. .	.	. .	. .	. .	. .	. .	. .	. .	. .	1
000-139	Other infective and parasitic diseases	48	3.5	2	2	. .	1	3	2	2	8	7	21
140-208	Malignant neoplasms	1,314	96.1	1	6	8	15	34	33	111	297	407	402
140-149	*Malignant neoplasms of lip, oral cavity, and pharynx*	*14*	*1.0*	. .	. .	. .	. .	. .	*1*	*1*	*4*	*1*	*7*
150-159	*Malignant neoplasms of digestive organs and peritoneum*	*348*	*25.5*	.	*1*	. .	. .	*6*	*3*	*22*	*64*	*119*	*133*
160-165	*Malignant neoplasms of respiratory and intrathoracic organs*	*253*	*18.5*	. .	. .	. .	. .	*3*	*1*	*26*	*80*	*93*	*50*
174-175	*Malignant neoplasms of breast*	*120*	*8.8*	.	. .	. .	. .	*1*	*7*	*21*	*33*	*36*	*22*
179-187	*Malignant neoplasms of genital organs*	*167*	*12.2*	. .	. .	. .	. .	*2*	*4*	*10*	*31*	*54*	*66*
188-189	*Malignant neoplasms of urinary organs*	*47*	*3.4*	*1*	. .	*2*	. .	. .	*2*	. .	*7*	*20*	*15*
170-173, 190-199	*Malignant neoplasms of all other unspecified sites*	*207*	*15.1*	. .	*2*	*5*	*9*	*12*	*11*	*23*	*47*	*43*	*55*
200-203	*Other malignant neoplasms of lymphatic and hematopoietic tissues*	*98*	*7.2*	. .	. .	. .	*2*	*3*	*3*	*6*	*20*	*28*	*36*
204-208	*Leukemia*	*60*	*4.4*	.	*3*	*1*	*4*	*7*	*1*	*2*	*11*	*13*	*18*
210-239	Benign neoplasms and neoplasms of unspecified nature	28	2.0	1	1	1	1	2	1	2	3	9	7
250	Diabetes mellitis	176	12.9	. .	1	. .	4	7	11	11	24	35	83
280-285	Anemias	21	1.5	1	1	. .	1	. .	1	1	. .	7	9
320-322	Meningitis	10	0.7	6	1	. .	. .	. .	1	. .	. .	2	.
390-448	Major cardiovascular diseases[3]	3,598	263.2	1	2	3	7	13	39	174	462	857	2,039
390-398	*Rheumatic fever and rheumatic heart disease*	*91*	*6.7*	. .	. .	. .	. .	*1*	*2*	*7*	*16*	*33*	*32*
401,403	*Hypertension with or without renal disease*	*19*	*1.4*	. .	. .	. .	. .	. .	. .	*2*	*2*	*4*	*11*
402,404	*Hypertensive heart disease and hypertensive heart and renal disease*	*93*	*6.8*	.	. .	*1*	. .	*1*	*1*	*6*	*9*	*14*	*61*
410-414	*Ischemic heart disease*[3]	*1,886*	*138.0*	. .	. .	. .	. .	*3*	*24*	*109*	*301*	*503*	*945*
424	*Other diseases of endocardium*	*31*	*2.3*	.	. .	. .	*1*	. .	. .	. .	*5*	*9*	*16*
415-429[4]	*Other forms of heart disease*	*699*	*51.1*	*1*	*2*	*1*	*5*	*4*	*6*	*31*	*74*	*135*	*440*
430-438	*Cerebrovascular diseases*	*628*	*45.9*	.	. .	*1*	*1*	*3*	*5*	*14*	*40*	*123*	*441*
440	*Atherosclerosis*	*81*	*5.9*	.		. .	. .	. .	. .	*1*	*2*	*13*	*65*
441-448	*Other diseases of arteries, arterioles, and capillaries*	*70*	*5.1*	. .	. .	. .	. .	*1*	*1*	*4*	*13*	*23*	*28*
466	Acute bronchitis and bronchiolitis	2	. .	. .	1	1	. .	. .	. .	. .	. .	.	. .
480-487	Pneumonia and influenza	232	17.0	4	1	2	2	. .	2	2	19	46	154
480-486	*Pneumonia*	*224*	*16.4*	*4*	*1*	*2*	*2*	. .	*2*	*2*	*19*	*44*	*148*
487	*Influenza*	*8*	*0.6*	. .	. .	. .	. .	. .	. .	. .	. .	*2*	*6*
490-493	Chronic obstructive pulmonary diseases and allied conditions	107	7.8	1	1	1	2	. .	1	4	19	39	39
490-491	*Bronchitis, chronic and unspecified*	*20*	*1.5*	*1*	. .	. .	*1*	. .	. .	*1*	*4*	*7*	*6*
492	*Emphysema*	*73*	*5.3*	. .	. .	. .	. .	. .	. .	*2*	*14*	*27*	*30*
493	*Asthma*	*14*	*1.0*	. .	*1*	*1*	*1*	. .	*1*	*1*	*1*	*5*	*3*
531-533	Ulcer of stomach and duodenum	26	1.9	. .	. .	. .	1	. .	. .	. .	7	7	11
550-553, 560	Hernia of abdominal cavity and intestinal obstruction without mention of hernia	25	1.8	. .	2	. .	. .	. .	. .	. .	1	4	18
571	Chronic liver disease and cirrhosis	143	10.5	1	. .	. .	. .	5	17	37	47	25	11
574-575	Cholelithiasis and other disorders of gallbladder	16	1.2	. .	. .	. .	. .	1	. .	1	3	2	9
580-589	Nephritis, nephrotic syndrom, and nephrosis	60	4.4	1	. .	. .	. .	. .	3	3	5	17	31
590	Infections of the kidney	11	0.8	1	. .	. .	. .	. .	. .	. .	1	. .	9
600	Hyperplasia of prostate	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	2
630-676	Complications of pregnancy, childbirth, and the puerperium	6	. .	. .	. .	. .	1	5	. .	. .	. .	. .	. .
740-759	Congenital anomalies	135	9.9	107	13	4	2	1	1	3	3	. .	1
760-779	Certain conditions originating in the perinatal period	192	14.0	191	. .	. .	1	. .	. .	. .	. .	. .	. .
780-799	Symptoms, signs, and ill-defined conditions[3]	154	11.3	86	1	. .	1	2	3	1	5	4	50
E800-E949	Accidents and adverse effects	622	45.5	11	40	42	151	102	54	45	48	59	70
E810-E825	*Motor vehicle accidents*	*335*	*24.5*	*2*	*21*	*21*	*114*	*57*	*28*	*20*	*25*	*29*	*18*
E826-E949	*Other accidents and adverse effects*	*287*	*21.0*	*9*	*19*	*21*	*37*	*45*	*26*	*25*	*23*	*30*	*52*
E950-E959	Suicide	179	13.1	. .	. .	1	43	46	33	15	16	16	9
E960-E978	Homicide and legal intervention[3]	62	4.5	1	2	1	21	12	9	10	3	1	1
E980-E999	All other external causes	40	2.9	2	. .	7	5	9	6	7	2	2	. .
	Residual	658	-	19	12	9	16	25	15	32	82	173	275

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[1] Rate per 100,000 population. [2] Includes 3 "age not stated." [3] Includes 1 "age not stated." [4] Excludes ICD 424.

TABLE A-44

DEATHS FROM DISEASES OF THE CIRCULATORY SYSTEM BY AGE AND SEX: UTAH, 1979

Age and Sex	Deaths from Diseases of the Circulatory System by ICDA Code								
	Total 390-458	Active Rheumatic Fever 390-392	Chronic Rheumatic Fever 393-398	Hypertensive Disease 400-404	Ischemic Heart Disease 410-414	Other Forms of Heart Disease 420-429	Cerebro-vascular Disease 430-438	Diseases of Arteries, Arterioles, Capillaries 440-448	Diseases of Veins and Lymphatics, and Other Diseases of Circulatory System 450-458
Total	3,616	. .	91	112	1,886	679	679	151	18
Male	1,932	. .	29	50	1,156	331	275	81	10
Female	1,682	. .	62	61	730	348	403	70	8
Unknown	2	. .	. .	1	. .	. .	1	. .	. .
Under 45	68	. .	3	3	28	17	13	2	2
Male	48	. .	1	2	27	10	5	1	2
Female	20	. .	2	1	1	7	8	1	. .
45-54	178	. .	7	8	109	25	20	5	4
Male	134	. .	4	5	90	20	8	5	2
Female	43	. .	3	2	19	5	12	. .	2
Unknown	1	. .	. .	1	. .	. .	. .	. .	. .
55-64	464	. .	16	11	301	69	50	15	2
Male	340	. .	6	9	241	51	21	10	2
Female	124	. .	10	2	60	18	29	5	. .
65-74	862	. .	33	18	503	132	135	36	5
Male	552	. .	10	12	341	81	80	25	3
Female	309	. .	23	6	162	51	54	11	2
Unknown	1	. .	. .	. .	. .	. .	1	. .	. .
75+	2,044	. .	32	72	945	436	461	93	5
Male	858	. .	8	22	457	169	161	40	1
Female	1,186	. .	24	50	488	267	300	53	4

TABLE A-45

DEATHS BY RESIDENCE AND MAJOR DEATH CLASSIFICATION: UTAH, 1979

District and County of Residence	Total	Deaths by Major Classification			
		Chronic and Old Age	Preventable	Violent	Residual
Total	7,871	5,710	617	974	570
District 1	495	367	37	57	34
Box Elder	191	139	16	25	11
Cache	288	215	19	31	23
Rich	16	13	2	1	. .
District 2N	1,491	1,074	135	178	104
Davis	505	342	62	63	38
Morgan	33	24	1	4	4
Weber	953	708	72	111	62
District 2S	3,619	2,663	240	438	278
Salt Lake	3,466	2,561	228	410	267
Tooele	153	102	12	28	11
District 3	1,009	701	120	108	80
Summit	53	39	1	9	4
Utah	895	613	114	96	72
Wasatch	61	49	5	3	4
District 4	376	286	25	43	22
Juab	43	30	4	8	1
Millard	70	48	2	13	7
Piute	12	9	. .	1	2
Sanpete	123	100	9	9	5
Sevier	115	87	10	11	7
Wayne	13	12	. .	1	. .
District 5	392	293	25	54	20
Beaver	52	38	3	10	1
Garfield	28	23	2	1	2
Iron	104	75	12	10	7
Kane	24	16	. .	8	. .
Washington	184	141	8	25	10
District 6	181	119	17	34	11
Daggett	2	2	. .	. .	. .
Duchesne	74	48	5	13	8
Uintah	105	69	12	21	3
District 7	308	207	18	62	21
Carbon	154	119	4	22	9
Emery	59	38	5	13	3
Grand	48	31	3	10	4
San Juan	47	19	6	17	5

TABLE A-46

DEATHS BY AGE, SEX, AND MAJOR DEATH CLASSIFICATION: UTAH, 1979

Age and Sex	Total	Deaths by Major Classification			
		Chronic and Old Age	Preventable	Violent	Residual
Total	7,871	5,710	617	974	570
Under 15	605	28	346	107	124
Male	355	10	199	67	79
Female	249	18	146	40	45
Sex unknown	1	. .	1	. .	. .
15-24	275	24	13	220	18
Male	216	16	9	179	12
Female	59	8	4	41	6
25-34	267	55	20	171	21
Male	186	34	9	131	12
Female	81	21	11	40	9
35-44	232	68	38	110	16
Male	156	36	30	80	10
Female	76	32	8	30	6
45-54	461	257	93	94	17
Male	298	144	74	71	9
Female	162	112	19	23	8
Sex unknown	1	1	. .	. .	. .
55-64	1,056	837	70	93	56
Male	672	535	41	64	32
Female	384	302	29	29	24
65-74	1,719	1,516	11	92	100
Male	1,067	944	4	59	60
Female	651	571	7	33	40
Sex unknown	.	1	. .	. .	. .
75+	3,253	2,924	26	86	217
Male	1,471	1,325	13	43	90
Female	1,782	1,599	13	43	127
Unknown age	3	1	. .	1	1
Male	2	1	. .	1	. .
Female	1	. .	. .	. .	1

TABLE A-47

VIOLENT DEATHS BY AGE, SEX, AND CAUSE: UTAH, 1979

Age and Sex	Total	Accident E800-E949	Alcoholism 291, 303, 571.3	Suicide E950-E959	Homicide E960-E979	Undetermined If Injury Was Inflicted Accidentally or Purposely E980-E989
Total	974	622	71	179	62	40
Under 15	108	93	. .	1	5	9
Male	68	59	. .	. .	3	6
Female	40	34	. .	1	2	3
15-19	91	69	. .	15	5	2
Male	67	49	. .	12	4	2
Female	24	20	. .	3	1	. .
20-24	129	82	. .	28	16	3
Male	112	73	. .	25	12	2
Female	17	9	. .	3	4	1
25-34	171	102	2	46	12	9
Male	131	79	. .	38	8	6
Female	40	23	2	8	4	3
35-44	110	54	8	33	9	6
Male	80	40	5	25	7	3
Female	30	14	3	8	2	3
45-54	94	45	17	15	10	7
Male	71	38	9	13	8	3
Female	23	7	8	2	2	4
55-64	93	48	24	16	3	2
Male	64	32	18	12	2	. .
Female	29	16	6	4	1	2
65-74	92	59	14	16	1	2
Male	59	31	12	16	. .	. .
Female	33	28	2	. .	1	2
75-84	51	38	6	7	. .	. .
Male	25	17	3	5	. .	. .
Female	26	21	3	2	. .	. .
85+	35	32	. .	2	1	. .
Male	18	15	. .	2	1	. .
Female	17	17	. .	. .	. .	. .

TABLE A-48

VIOLENT DEATHS BY RESIDENCE AND CAUSE: UTAH, 1979

County and District of Residence	Total	Accident E800-E949	Alcoholism 291, 303, 571.3	Suicide E950-E959	Homicide E960-E979	Undetermined If Injury Was Inflicted Accidentally or Purposely E980-E989
Total	974	622	71	179	62	40
District 1	57	44	2	7	2	2
Box Elder	25	21	. .	2	1	1
Cache	31	22	2	5	1	1
Rich	1	1	. .	. .	. .	. .
District 2N	178	113	18	26	12	9
Davis	63	44	1	9	5	4
Morgan	4	4	. .	. .	. .	. .
Weber	111	65	17	17	7	5
District 2S	438	267	32	89	31	19
Salt Lake	410	246	30	85	31	18
Tooele	28	21	2	4	. .	1
District 3	108	68	4	25	7	4
Summit	9	4	. .	4	1	. .
Utah	96	62	3	21	6	4
Wasatch	3	2	1	. .	. .	. .
District 4	43	32	2	6	2	1
Juab	8	7	1	. .	. .	. .
Millard	13	8	1	2	1	1
Piute	1	1	. .	. .	. .	. .
Sanpete	9	8	. .	1	. .	. .
Sevier	11	8	. .	3	. .	. .
Wayne	1	. .	. .	. .	1	. .
District 5	54	41	4	7	1	1
Beaver	10	10	. .	. .	. .	. .
Garfield	1	. .	. .	1	. .	. .
Iron	10	6	1	1	1	1
Kane	8	5	2	1	. .	. .
Washington	25	20	1	4	. .	. .
District 6	34	20	4	8	1	1
Daggett	. .	. .	. .	. .	. .	. .
Duchesne	13	10	. .	3	. .	. .
Uintah	21	10	4	5	1	1
District 7	62	37	5	11	6	3
Carbon	22	12	2	6	1	1
Emery	13	6	2	1	3	1
Grand	10	6	1	2	1	. .
San Juan	17	13	. .	2	1	1

TABLE A-49

VIOLENT DEATHS BY RACE, SEX, AND CAUSE: UTAH, 1979

Race and Sex	Total	Accident E800-E949	Acoholism 291, 303 571.0	Suicide E950-E959	Homicide E960-E979	Undetermined If Injury Was Inflicted Accidentally or Purposely E980-E989
Total	974	622	71	179	62	40
Male	695	433	47	148	45	22
Female	279	189	24	31	17	18
White	921	590	65	171	56	39
Male	661	413	46	140	41	21
Female	260	177	19	31	15	18
Black	7	5	. .	1	1	. .
Male	5	3	. .	1	1	. .
Female	2	2	. .	. .	. .	. .
Indian	37	19	6	6	5	1
Male	23	12	1	6	3	1
Female	14	7	5	. .	2	. .
Other nonwhite	8	8	. .	. .	. .	. .
Male	5	5	. .	. .	. .	. .
Female	3	3	. .	. .	. .	. .
Not stated	1	. .	. .	1	. .	. .
Male	1	. .	. .	1	. .	. .
Female	. .	. .	. .	. .	. .	. .

TABLE A-50

VIOLENT DEATHS DUE TO POISONING BY AGE, SEX, AND CAUSE: UTAH, 1979

Cause of Death and Sex of Deceased	Total	Deaths by Age					
		Under 15	15-19	20-24	25-44	45-64	65+
Total violent deaths due to poisoning (E850-E982)	84	5	7	3	42	20	7
Male	48	3	5	2	24	11	3
Female	36	2	2	1	18	9	4
Accident (E850-E982)	18	2	3	2	6	2	3
Male	10	1	2	1	4	1	1
Female	8	1	1	1	2	1	2
Drugs and medicants (E850-E859)	6	. .	. .	. .	4	1	1
Male	2	. .	. .	. .	2	. .	. .
Female	4	. .	. .	. .	2	1	1
Other solid or liquid substances (860-E869)	12	2	3	2	2	1	2
Male	8	1	2	1	2	1	1
Female	4	1	1	1	. .	. .	1
Suicide and self-inflicted poisoning E950-E952	40	. .	3	1	24	10	2
Male	26	. .	2	1	13	8	2
Female	14	. .	1	. .	11	2	. .
Solid or liquid substances (E950)	22	. .	2	. .	16	3	1
Male	12	. .	1	. .	7	3	1
Female	10	. .	1	. .	9	. .	. .
Other gases (E952)	18	. .	1	1	8	7	1
Male	14	. .	1	1	6	5	1
Female	4	. .	. .	. .	2	2	. .
Undetermined whether accidentally or purposely inflicted (E980-E982)	26	3	1	. .	12	8	2
Male	12	2	1	. .	7	2	. .
Female	14	1	. .	. .	5	6	2
Solid or liquid substances (E980)	19	. .	1	. .	10	6	2
Male	7	. .	1	. .	6	. .	. .
Female	12	. .	. .	. .	4	6	2
Other gases (E982)	7	3	. .	. .	2	2	. .
Male	5	2	. .	. .	1	2	. .
Female	2	1	. .	. .	1	. .	. .

TABLE A-51

VIOLENT DEATHS DUE TO FIREARMS AND EXPLOSIVE MATERIAL BY AGE, SEX, AND TYPE OF DEATH: UTAH, 1979

Cause of Death and Sex of Deceased	Total	Deaths by Age					
		Under 15	15-19	20-24	25-44	45-64	65+
Total violent deaths due to firearm missiles and explosive materials	167	5	37	17	58	31	19
Male	142	3	32	13	52	25	17
Female	25	2	5	4	6	6	2
Accident (E922-E923)	5	2	1	1	. .	1	. .
Male	4	1	1	1	. .	1	. .
Female	1	1	. .	. .	. .	. .	. .
Suicide and self-inflicted injury (E955)	120	1	23	11	47	20	18
Male	107	. .	21	8	44	17	17
Female	13	1	2	3	3	3	1
Assault (E965)	35	1	11	4	9	9	1
Male	25	1	9	3	6	6	. .
Female	10	. .	2	1	3	3	1
Undetermined whether accidentally or purposely inflicted (E985)	7	1	2	1	2	1	. .
Male	6	1	1	1	2	1	. .
Female	1	. .	1	. .	. .	. .	. .

TABLE A-52

SUICIDE BY AGE, SEX, AND METHOD: UTAH, 1979

Age and Sex	Total (E950-E959)	Solid or Liquid Substances (E950)	Gases Other Than Domestics (E952)	Hanging or Suffocation (E953)	Drowning (E954)	Firearms and Explosives (E955)	Cutting and Piercing Instruments (E956)	Jumping from a High Place (E957)	Other and Unspecified Means
Total	179	22	18	14	. .	120	1	1	3
Male	148	12	14	12	. .	107	. .	1	2
Female	31	10	4	2	. .	13	1	. .	1
Under 15	1	. .	. .	. .	. .	1	. .	. .	. .
Male	. .	. .	. .	. .	. .	. .	. .	. .	. .
Female	1	. .	. .	. .	. .	1	. .	. .	. .
15-19	15	. .	1	2	. .	11	. .	. .	1
Male	12	. .	1	2	. .	8	. .	. .	1
Female	3	. .	. .	. .	. .	3	. .	. .	. .
20-24	28	2	1	1	. .	23	. .	. .	1
Male	25	1	1	1	. .	21	. .	. .	1
Female	3	1	. .	. .	. .	2	. .	. .	. .
25-34	46	8	6	2	. .	28	. .	1	1
Male	38	4	4	2	. .	27	. .	1	. .
Female	8	4	2	. .	. .	1	. .	. .	1
35-44	33	8	2	3	. .	19	1	. .	. .
Male	25	3	2	3	. .	17	. .	. .	. .
Female	8	5	. .	. .	. .	2	1	. .	. .
45-54	15	2	3	1	. .	9	. .	. .	. .
Male	13	2	2	. .	. .	9	. .	. .	. .
Female	2	. .	1	1	. .	. .	. .	. .	. .
55-64	16	1	4	. .	. .	11	. .	. .	. .
Male	12	1	3	. .	. .	8	. .	. .	. .
Female	4	. .	1	. .	. .	3	. .	. .	. .
65-74	16	1	1	2	. .	12	. .	. .	. .
Male	16	1	1	2	. .	12	. .	. .	. .
Female	. .	. .	. .	. .	. .	. .	. .	. .	. .
75+	9	. .	. .	3	. .	6	. .	. .	. .
Male	7	. .	. .	2	. .	5	. .	. .	. .
Female	2	. .	. .	1	. .	1	. .	. .	. .

TABLE A-53

ACCIDENTAL DEATH OCCURRENCES BY AGE, SEX, AND TYPE OF ACCIDENT: UTAH, 1979

Age and Sex	Accidental Deaths by Type of Accident																		
	Total	Motor Vehicle (E810-E825)	Water Transport (830-E838)	Air and Space Transport (E840-E845)	Poisoning (E850-E869)	Misadventures to Patients During Surgical and Medical Care (E870-E876)	Falls (E880-E888)	Fire and Flames (E890-E899)	Nature and Environment (E900-E909	Drowning and Submersion (E910)	Inhalation and Ingestion of Food Causing Obstruction or Suffocation (E911)	Inhalation and Ingestion of Other Object Causing Obstruction or Suffocation (E912)	Mechanical Suffocation (E913)	Hit by Object (E916-E918)	Firearm Missiles (E922)	Explosive Materials (E923)	Electric Current (E925)	Machinery (E928	Other
Total	670	355	10	42	19	2	78	28	5	36	9	1	14	16	4	4	8	13	26
Under 15	100	49	2	2	2	. .	5	3	1	14	2	1	8	1	2	. .	1	4	3
Male	61	27	1	. .	1	. .	3	1	1	12	1	. .	5	1	1	. .	1	4	2
Female	39	22	1	2	1	. .	2	2	. .	2	1	1	3	. .	1	. .	. .	. .	1
15-19	70	56	1	. .	2	. .	1	1	. .	4	. .	. .	. .	. .	1	. .	2	1	1
Male	52	39	1	. .	1	. .	1	1	. .	4	. .	. .	. .	. .	1	. .	2	1	1
Female	18	17	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
20-24	94	67	3	1	4	. .	3	. .	. .	6	. .	. .	1	5	1	. .	. .	2	1
Male	82	57	3	1	2	. .	3	. .	. .	6	. .	. .	1	5	1	. .	. .	2	1
Female	12	10	. .	. .	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
25-34	123	65	. .	11	6	. .	2	7	1	7	. .	. .	3	7	. .	2	3	5	4
Male	101	46	. .	10	5	. .	2	6	1	7	. .	. .	3	7	. .	2	3	5	4
Female	22	19	. .	1	1	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
35-44	56	28	1	13	2	. .	1	3	. .	2	2	. .	1	. .	. .	1	1	. .	1
Male	41	22	1	9	1	. .	1	1	. .	2	1	. .	1	. .	. .	1	1	. .	. .
Female	15	6	. .	4	1	. .	. .	2	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	1
45-54	40	16	1	10	. .	. .	5	3	1	. .	. .	. .	. .	1	. .	. .	1	. .	2
Male	35	15	1	10	. .	. .	3	1	1	. .	. .	. .	. .	1	. .	. .	1	. .	2
Female	5	1	. .	. .	. .	. .	2	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
55-64	54	25	1	4	2	1	6	5	2	. .	. .	. .	. .	1	. .	1	. .	. .	6
Male	33	14	. .	3	1	. .	4	4	2	. .	. .	. .	. .	1	. .	1	. .	. .	3
Female	21	11	1	1	1	1	2	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	3
65+	133	49	1	1	1	1	55	6	. .	3	5	. .	1	1	. .	. .	. .	1	8
Male	69	25	1	1	. .	1	24	4	. .	2	2	. .	1	1	. .	. .	. .	1	6
Female	64	24	. .	. .	1	. .	31	2	. .	1	3	. .	. .	. .	. .	. .	. .	. .	2

TABLE A-54

ACCIDENTAL DEATHS BY MONTH OF DEATH AND TYPE OF ACCIDENT: UTAH, 1979

Type of Accident	Total	Accidental Deaths by Month of Death											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Total	670	54	37	62	54	50	53	69	69	72	48	53	49
Motor vehicle (E810-E825)	355	27	18	27	33	25	28	38	28	48	26	32	25
Water transport (E830-E838)	10	. .	. .	. .	2	1	2	2	1	1	. .	. .	1
Air and space transport (E840-E845)	42	5	5	6	. .	3	. .	. .	13	2	3	3	2
Poisoning (E850-E869)	19	3	2	6	1	1	. .	. .	. .	. .	3	3	. .
Surgical and medical (E870-E876)	2	. .	. .	1	. .	. .	1	. .	. .	. .	. .	. .	. .
Falls (E880-E888)	78	7	4	9	5	4	11	6	6	13	6	4	3
Fire and flames (E890-E899)	28	4	1	2	1	4	1	2	. .	1	1	2	9
Nature and environment (E900-E909)	5	3	. .	. .	1	. .	. .	1	. .	. .	. .	. .	. .
Drowning and submersion (E910)	36	1	. .	2	5	6	5	8	6	2	. .	1	. .
Inhalation and ingestion of food causing obstruction or suffocation (E911)	9	1	2	. .	. .	3	1	1	. .	. .	. .	. .	1
Inhalation and ingestion of other object causing obstruction or suffocation (E912)	1	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .
Mechanical suffocation (E913)	14	1	. .	. .	. .	. .	1	1	3	1	1	4	2
Hit by Object (E916-E918)	16	. .	2	1	1	. .	. .	. .	6	. .	1	1	4
Machinery (E919)	13	. .	. .	1	1	3	1	4	1	. .	1	. .	1
Firearm missiles (E922)	4	1	. .	1	. .	. .	. .	. .	. .	1	1	. .	. .
Explosive materials (E923)	4	. .	1	. .	1	. .	. .	. .	1	. .	. .	. .	1
Electric current (E925)	8	. .	. .	2	. .	. .	. .	1	1	2	1	1	. .
Other	26	1	2	3	3	. .	2	5	3	1	4	2	. .

TABLE A-55

DEATHS BY AGE, SEX, AND RESIDENCE FOR THOSE OF SPANISH ORIGIN: UTAH, 1979

District and County	Total			Deaths by Age Group and Sex																			
				Under 1		1-4		5-14		15-24		25-34		35-44		45-64		65-74		75+		Not Stated	
	Total	Male	Female	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Total	201	121	80	10	5	1	1	2	2	9	2	9	5	9	2	29	20	26	12	25	31	1	. .
District 1	7	5	2	1	. .	. .	. .	. .	. .	. .	. .	1	. .	1	. .	2	. .	. .	1	. .	1	. .	. .
Box Elder	5	4	1	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	1	. .	2	. .	. .	. .	. .	1	. .	. .
Cache	2	1	1	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .
Rich	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 2N	48	33	15	2	1	. .	. .	1	1	4	2	3	2	2	1	9	4	8	1	3	3	1	. .
Davis	11	8	3	1	. .	. .	. .	1	. .	. .	. .	. .	1	. .	. .	2	. .	3	1	1	1	. .	. .
Morgan	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Weber	37	25	12	1	1	. .	. .	. .	1	4	2	3	1	2	1	7	4	5	. .	2	2	1	. .
District 2S	97	53	44	6	3	1	. .	. .	1	4	. .	2	1	4	1	12	10	13	6	11	22	. .	. .
Salt Lake	92	51	41	6	3	1	. .	. .	1	4	. .	2	1	4	1	11	9	13	6	10	20	. .	. .
Tooele	5	2	3	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	1	. .	. .	1	2	. .	. .
District 3	16	8	8	1	1	. .	. .	. .	. .	. .	. .	1	. .	1	. .	. .	2	2	1	3	4	. .	. .
Summit	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Utah	16	8	8	1	1	. .	. .	. .	. .	. .	. .	1	. .	1	. .	. .	2	2	1	3	4	. .	. .
Wasatch	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 4	8	6	2	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	1	. .	1	1	3	1	. .	. .
Juab	1	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .
Millard	1	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .
Piute	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Sanpete	4	3	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	1	. .	1	1	. .	. .
Sevier	2	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .
Wayne	.	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 5	4	1	3	. .	. .	. .	1	. .	. .	. .	. .	. .	1	. .	. .	. .	1	1	. .	. .	. .	. .	. .
Beaver	1	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .
Garfield	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Iron	1	. .	1	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Kane	1	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .
Washington	1	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 6	2	2	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .
Daggett	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Duchesne	1	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .
Uintah	1	1	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
District 7	19	13	6	. .	. .	. .	. .	1	. .	. .	. .	1	1	1	. .	5	3	1	2	4	. .	. .	. .
Carbon	16	10	6	. .	. .	. .	. .	1	. .	. .	. .	1	1	1	. .	3	3	1	2	3	. .	. .	. .
Emery	1	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .
Grand	1	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .
San Juan	1	1	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	1	. .	. .	. .	. .	. .	. .	. .

TECHNICAL APPENDIX

TECHNICAL APPENDIX

Vital Statistics Registration in Utah

Centralized vital statistics registration for the State of Utah was first established by act of the Utah Legislature in 1905. The latest revision of the law is found in the 1953 Session Laws, Sections 26-15-9 to 26-15-10 as follows:

> The State Division of Health shall have and exercise the following powers and duties in addition to all other powers and duties imposed on it by law:
>
> a. Provide suitable offices properly equipped for the preservation of all records made or received under the provision of this act;
> b. Install a state-wide system of vital statistics;
> c. Prescribe forms for the collection, compilation, publication, and preservation of vital statistics;
> d. Enforce this act and its regulations made pursuant thereto;
> e. Appoint a Director of Vital Statistics;
> f. Divide the State from time to time into registration districts which will conform to political subdivisions or a combination thereof, or parts thereof;
> g. Appoint local registration officers for such registration districts as are established by the division. Such local registration officers, under the direction and supervision of the division, shall perform all duties required of them by this act and the regulations of the board.

Under Utah statutes, full-time health officers of local health departments become ex officio local registrars and are responsible for the registration of certificates for all births and deaths that occur within their respective jurisdictions. Four of the 29 counties (Salt Lake, Utah, Weber, and Davis), and four multicounty districts--Southeast (Carbon, Emery, Grand, and San Juan Counties), Bear River (Box Elder, Cache, and Rich Counties), Southwest (Garfield, Iron, Kane, and Washington Counties), and Central (Juab, Millard, Piute, Sanpete, Sevier, and Wayne Counties) maintain full-time local registrars. The local registrars within the remaining eight counties are appointed by the State and usually perform their duties on a part-time basis, and in many cases simultaneously assume other positions within their community. The map of the State of Utah (Figure C-1) indicates the location of the local registrars within each of the 29 counties. Presently, there are 18 local registrars and 19 deputy local registrars in the State.

Source of Data

Vital statistics certificates filed with the State Bureau of Health Statistics are the primary source of data presented within this report. These records include certificates of live birth, death, and fetal death. Source data for population estimates are provided by the United States Bureau of the Census.

Certificate Revision

The Utah certificates of live birth, death, and fetal death have been revised periodically; the most recent revision occurring in 1978 for certificates of birth, death, and fetal death. These certificates were adopted by the State Board of Health and distributed to the local registrars for use commencing January 1, 1978 (Figures C-2, C-3, and C-4). The new certificates include all of the items on the recommended national "Standard Certificates," with some modifications and additions to meet particular needs in Utah.

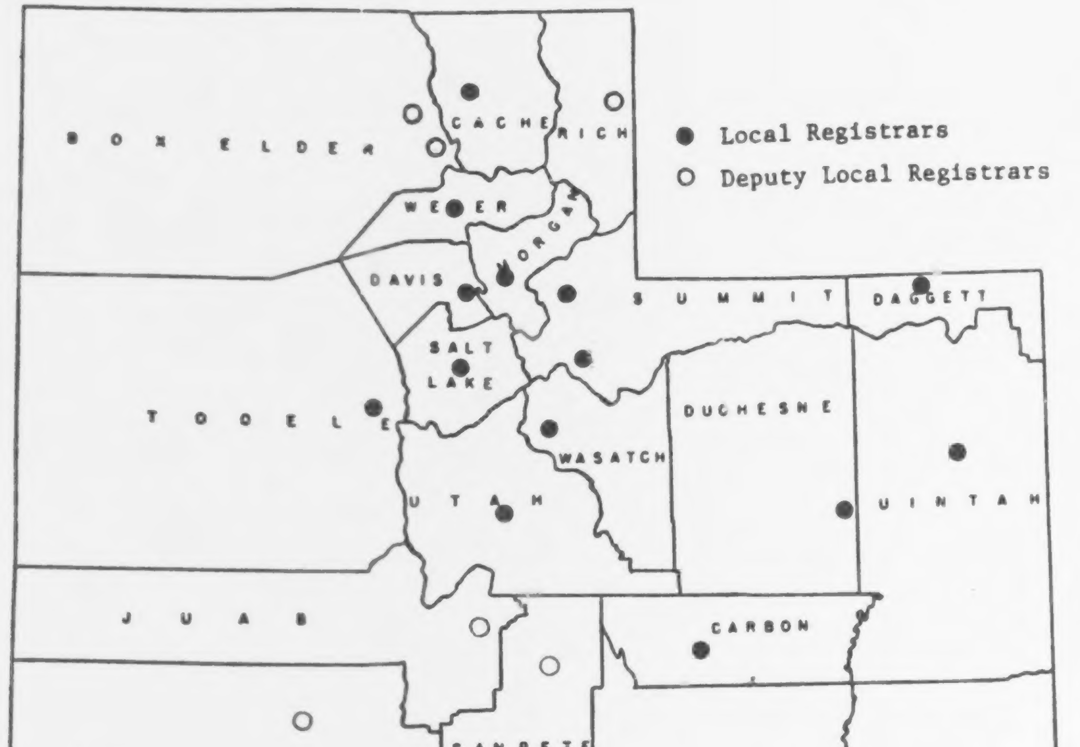
Quality and Limitations of Data

Limitations of the data must be recognized before valid interpretation is possible. For vital statistics data, these limitations are related to the difficulties in reporting and classifying information, and to some under-registration of events. It is necessary to exercise particular caution when evaluating vital statistics trend data, since medical concepts, code definitions, and method of assigning causes of death have changed over the years.

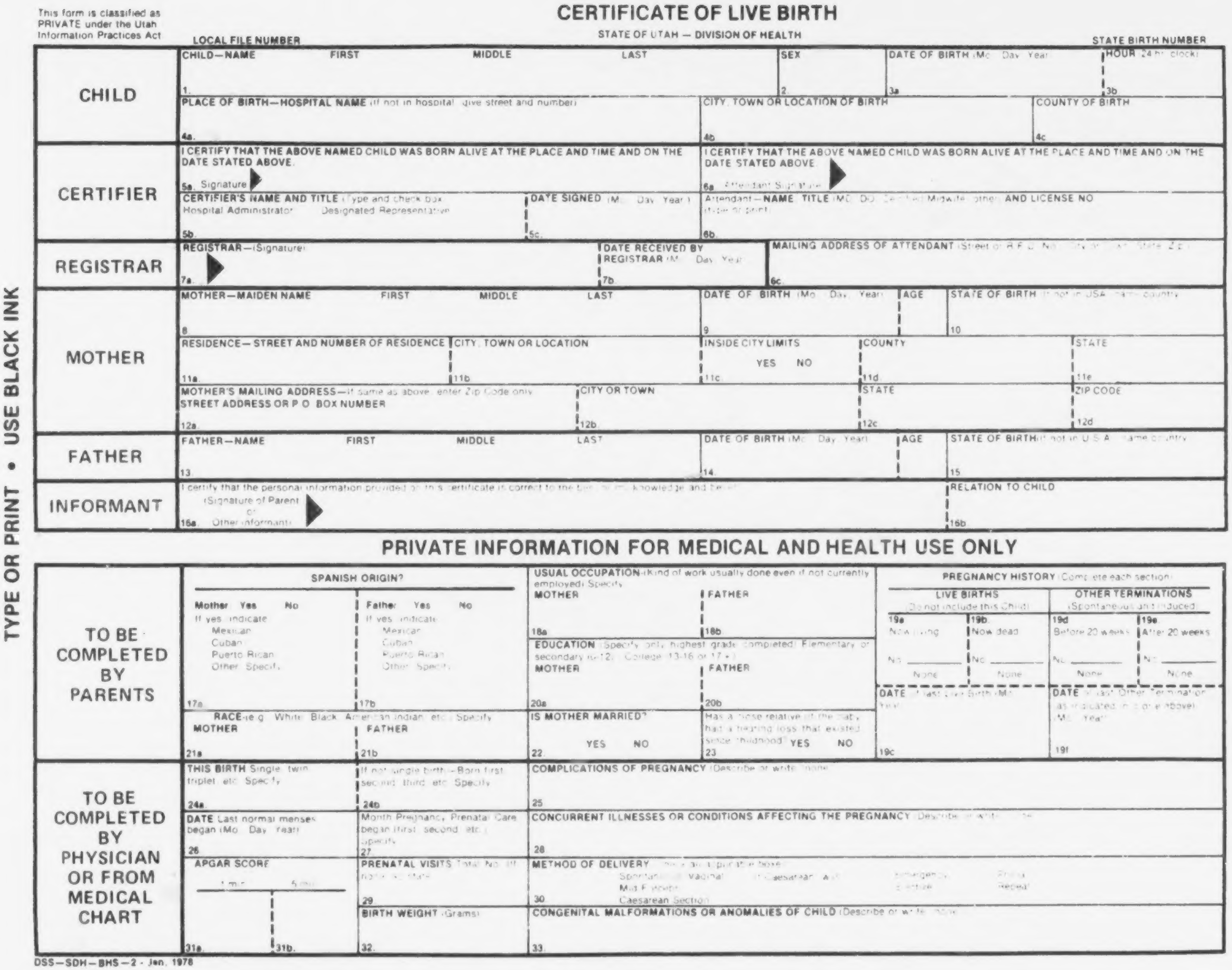
The completeness of registration for births was last tested at the state level in conjunction with the 1950 U.S. Census of the population and was found to be 98.7 percent complete at that time. At the present time, more than 99 percent of all Utah births occur in hospitals. This

FIGURE C-1

LOCATION OF LOCAL REGISTRARS OF VITAL STATISTICS
UTAH, 1979



BOX ELDER
CACHE
RICH
WEBER
MORGAN
DAVIS
SUMMIT
DAGGETT
SALT LAKE
TOOELE
DUCHESNE
UINTAH
WASATCH
UTAH
JUAB
CARBON
SANPETE
MILLARD
EMERY
GRAND
SEVIER
BEAVER
PIUTE
WAYNE
IRON
GARFIELD
SAN JUAN
WASHINGTON
KANE
● Local Registrars
○ Deputy Local Registrars



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Information Practices Act

CERTIFICATE OF LIVE BIRTH

STATE OF UTAH — DIVISION OF HEALTH

LOCAL FILE NUMBER

STATE BIRTH NUMBER

TYPE OR PRINT • USE BLACK INK

CHILD

1. CHILD—NAME FIRST MIDDLE LAST
2. SEX
3a. DATE OF BIRTH (Mo. Day Year)
3b. HOUR (24 hr. clock)
4a. PLACE OF BIRTH—HOSPITAL NAME (If not in hospital, give street and number)
4b. CITY, TOWN OR LOCATION OF BIRTH
4c. COUNTY OF BIRTH

CERTIFIER

I CERTIFY THAT THE ABOVE NAMED CHILD WAS BORN ALIVE AT THE PLACE AND TIME AND ON THE DATE STATED ABOVE.
5a. Signature ▶
5b. CERTIFIER'S NAME AND TITLE (Type and check box) Hospital Administrator Designated Representative
5c. DATE SIGNED (Mo. Day Year)

I CERTIFY THAT THE ABOVE NAMED CHILD WAS BORN ALIVE AT THE PLACE AND TIME AND ON THE DATE STATED ABOVE.
6a. Attendant Signature ▶
6b. Attendant—NAME, TITLE (MD, DO, Certified Midwife, other) AND LICENSE NO (Type or print)

REGISTRAR

7a. REGISTRAR—(Signature) ▶
7b. DATE RECEIVED BY REGISTRAR (Mo. Day Year)
6c. MAILING ADDRESS OF ATTENDANT (Street or R.F.D. No., City or Town, State, Zip)

MOTHER

8. MOTHER—MAIDEN NAME FIRST MIDDLE LAST
9. DATE OF BIRTH (Mo. Day Year)
AGE
10. STATE OF BIRTH (If not in USA, name country)
11a. RESIDENCE— STREET AND NUMBER OF RESIDENCE
11b. CITY, TOWN OR LOCATION
11c. INSIDE CITY LIMITS YES NO
11d. COUNTY
11e. STATE
12a. MOTHER'S MAILING ADDRESS—If same as above, enter Zip Code only STREET ADDRESS OR P.O. BOX NUMBER
12b. CITY OR TOWN
12c. STATE
12d. ZIP CODE

FATHER

13. FATHER—NAME FIRST MIDDLE LAST
14. DATE OF BIRTH (Mo. Day Year)
AGE
15. STATE OF BIRTH (If not in U.S.A., name country)

INFORMANT

I certify that the personal information provided on this certificate is correct to the best of my knowledge and belief.
16a. (Signature of Parent or Other informant) ▶
16b. RELATION TO CHILD

PRIVATE INFORMATION FOR MEDICAL AND HEALTH USE ONLY

TO BE COMPLETED BY PARENTS

SPANISH ORIGIN?
17a. Mother Yes No
If yes, indicate
Mexican
Cuban
Puerto Rican
Other (Specify)
17b. Father Yes No
If yes, indicate
Mexican
Cuban
Puerto Rican
Other (Specify)

USUAL OCCUPATION (Kind of work usually done even if not currently employed) Specify
18a. MOTHER
18b. FATHER

EDUCATION (Specify only highest grade completed) Elementary or secondary (0-12), College (13-16 or 17+)
20a. MOTHER
20b. FATHER

PREGNANCY HISTORY (Complete each section)
LIVE BIRTHS (Do not include this Child)
19a. Now living No. ______ None
19b. Now dead No. ______ None
19c. DATE of last Live Birth (Mo., Year)
OTHER TERMINATIONS (Spontaneous and induced)
19d. Before 20 weeks No. ______ None
19e. After 20 weeks No. ______ None
19f. DATE of last Other Termination (as indicated in d or e above) (Mo., Year)

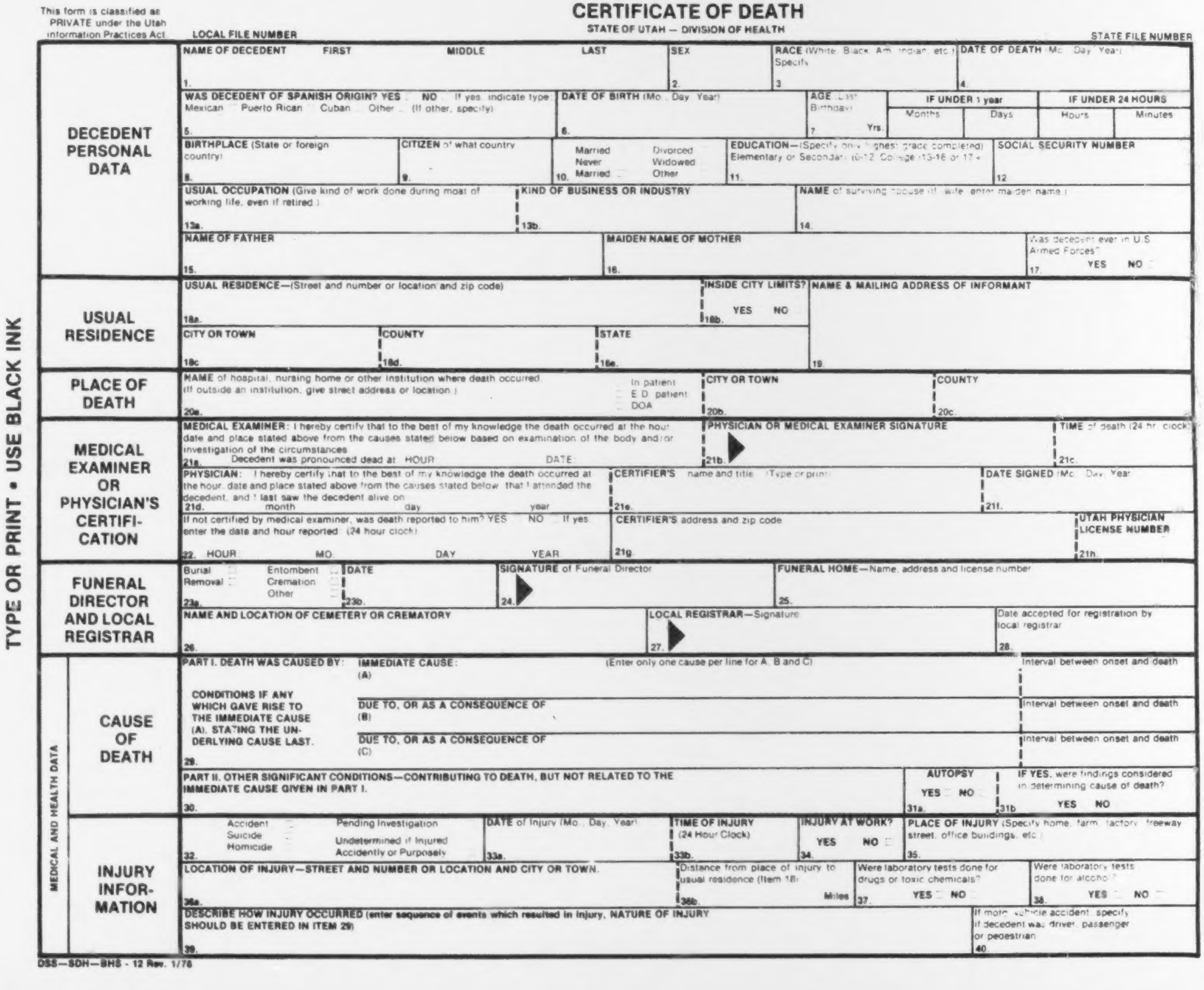
RACE—(e.g. White, Black, American Indian, etc.) Specify
21a. MOTHER
21b. FATHER
22. IS MOTHER MARRIED? YES NO
23. Has a close relative of the baby had a hearing loss that existed since childhood? YES NO

TO BE COMPLETED BY PHYSICIAN OR FROM MEDICAL CHART

24a. THIS BIRTH Single, twin, triplet, etc. Specify
24b. If not single birth—Born first, second, third, etc. Specify
25. COMPLICATIONS OF PREGNANCY (Describe or write "none")
26. DATE Last normal menses began (Mo. Day Year)
27. Month Pregnancy Prenatal Care began (first, second, etc.) Specify
28. CONCURRENT ILLNESSES OR CONDITIONS AFFECTING THE PREGNANCY (Describe or write "none")
APGAR SCORE
31a. 1 min.
31b. 5 min.
29. PRENATAL VISITS Total No. (If none, so state)
30. METHOD OF DELIVERY (Check all applicable boxes)
Spontaneous Vaginal
Mid Forceps
Caesarean Section
If Caesarean, was it: Emergency Elective
Primary Repeat
32. BIRTH WEIGHT (Grams)
33. CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD (Describe or write "none")

DSS—SDH—BHS—2 - Jan. 1978

FIGURE C-2



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LOCAL FILE NUMBER

CERTIFICATE OF DEATH

STATE OF UTAH — DIVISION OF HEALTH

STATE FILE NUMBER

TYPE OR PRINT • USE BLACK INK

DECEDENT PERSONAL DATA

1. NAME OF DECEDENT FIRST MIDDLE LAST
2. SEX
3. RACE (White, Black, Am. Indian, etc.) Specify
4. DATE OF DEATH (Mo., Day, Year)
5. WAS DECEDENT OF SPANISH ORIGIN? YES ☐ NO ☐ If yes, indicate type: Mexican ☐ Puerto Rican ☐ Cuban ☐ Other ☐ (If other, specify)
6. DATE OF BIRTH (Mo., Day, Year)
7. AGE (Last Birthday) Yrs. IF UNDER 1 year: Months, Days; IF UNDER 24 HOURS: Hours, Minutes
8. BIRTHPLACE (State or foreign country)
9. CITIZEN of what country
10. Married ☐ Never Married ☐ Divorced ☐ Widowed ☐ Other ☐
11. EDUCATION—(Specify only highest grade completed) Elementary or Secondary (0-12) College (13-16 or 17+)
12. SOCIAL SECURITY NUMBER
13a. USUAL OCCUPATION (Give kind of work done during most of working life, even if retired.)
13b. KIND OF BUSINESS OR INDUSTRY
14. NAME of surviving spouse (If wife, enter maiden name.)
15. NAME OF FATHER
16. MAIDEN NAME OF MOTHER
17. Was decedent ever in U.S. Armed Forces? YES ☐ NO ☐

USUAL RESIDENCE

18a. USUAL RESIDENCE—(Street and number or location and zip code)
18b. INSIDE CITY LIMITS? YES ☐ NO ☐
18c. CITY OR TOWN
18d. COUNTY
18e. STATE
19. NAME & MAILING ADDRESS OF INFORMANT

PLACE OF DEATH

20a. NAME of hospital, nursing home or other institution where death occurred. (If outside an institution, give street address or location.) ☐ In patient ☐ E.D. patient ☐ DOA
20b. CITY OR TOWN
20c. COUNTY

MEDICAL EXAMINER OR PHYSICIAN'S CERTIFICATION

21a. MEDICAL EXAMINER: I hereby certify that to the best of my knowledge the death occurred at the hour, date and place stated above from the causes stated below based on examination of the body and/or investigation of the circumstances. Decedent was pronounced dead at: HOUR DATE
21b. PHYSICIAN OR MEDICAL EXAMINER SIGNATURE ▶
21c. TIME of death (24 hr. clock)
21d. PHYSICIAN: I hereby certify that to the best of my knowledge the death occurred at the hour, date and place stated above from the causes stated below, that I attended the decedent, and I last saw the decedent alive on month day year
21e. CERTIFIER'S name and title (Type or print)
21f. DATE SIGNED (Mo., Day, Year)
22. If not certified by medical examiner, was death reported to him? YES ☐ NO ☐ If yes, enter the date and hour reported. (24 hour clock) HOUR MO. DAY YEAR
21g. CERTIFIER'S address and zip code
21h. UTAH PHYSICIAN LICENSE NUMBER

FUNERAL DIRECTOR AND LOCAL REGISTRAR

23a. Burial ☐ Removal ☐ Entombment ☐ Cremation ☐ Other ☐
23b. DATE
24. SIGNATURE of Funeral Director ▶
25. FUNERAL HOME—Name, address and license number
26. NAME AND LOCATION OF CEMETERY OR CREMATORY
27. LOCAL REGISTRAR—Signature ▶
28. Date accepted for registration by local registrar

MEDICAL AND HEALTH DATA

CAUSE OF DEATH

29. PART I. DEATH WAS CAUSED BY: IMMEDIATE CAUSE: (Enter only one cause per line for A, B and C)

CONDITIONS IF ANY WHICH GAVE RISE TO THE IMMEDIATE CAUSE (A), STATING THE UNDERLYING CAUSE LAST.

(A) Interval between onset and death

DUE TO, OR AS A CONSEQUENCE OF (B) Interval between onset and death

DUE TO, OR AS A CONSEQUENCE OF (C) Interval between onset and death

30. PART II. OTHER SIGNIFICANT CONDITIONS—CONTRIBUTING TO DEATH, BUT NOT RELATED TO THE IMMEDIATE CAUSE GIVEN IN PART I.
31a. AUTOPSY YES ☐ NO ☐
31b. IF YES, were findings considered in determining cause of death? YES ☐ NO ☐

INJURY INFORMATION

32. Accident ☐ Suicide ☐ Homicide ☐ Pending Investigation ☐ Undetermined if Injured Accidently or Purposely ☐
33a. DATE of Injury (Mo., Day, Year)
33b. TIME OF INJURY (24 Hour Clock)
34. INJURY AT WORK? YES ☐ NO ☐
35. PLACE OF INJURY (Specify home, farm, factory, freeway, street, office buildings, etc.)
36a. LOCATION OF INJURY—STREET AND NUMBER OR LOCATION AND CITY OR TOWN.
36b. Distance from place of injury to usual residence (Item 18) Miles
37. Were laboratory tests done for drugs or toxic chemicals? YES ☐ NO ☐
38. Were laboratory tests done for alcohol? YES ☐ NO ☐
39. DESCRIBE HOW INJURY OCCURRED (enter sequence of events which resulted in injury. NATURE OF INJURY SHOULD BE ENTERED IN ITEM 29)
40. If motor vehicle accident, specify if decedent was driver, passenger or pedestrian

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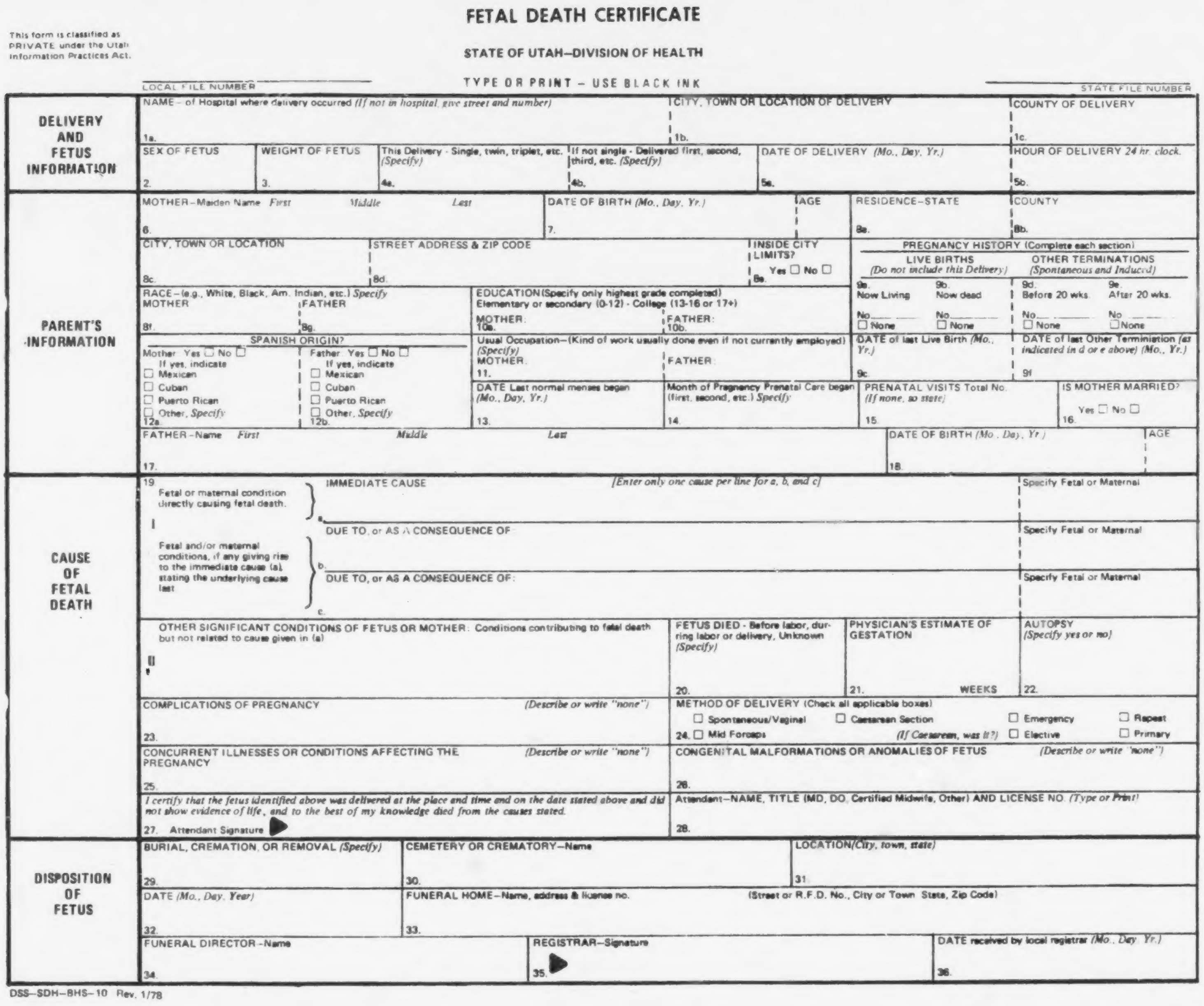
FIGURE C-3



This form is classified as
PRIVATE under the Utah
Information Practices Act.

FETAL DEATH CERTIFICATE

STATE OF UTAH—DIVISION OF HEALTH

TYPE OR PRINT – USE BLACK INK

LOCAL FILE NUMBER

STATE FILE NUMBER

DELIVERY AND FETUS INFORMATION

1a. NAME – of Hospital where delivery occurred *(If not in hospital, give street and number)*
1b. CITY, TOWN OR LOCATION OF DELIVERY
1c. COUNTY OF DELIVERY
2. SEX OF FETUS
3. WEIGHT OF FETUS
4a. This Delivery - Single, twin, triplet, etc. *(Specify)*
4b. If not single - Delivered first, second, third, etc. *(Specify)*
5a. DATE OF DELIVERY *(Mo., Day, Yr.)*
5b. HOUR OF DELIVERY *24 hr. clock.*

PARENT'S INFORMATION

6. MOTHER – Maiden Name *First* *Middle* *Last*
7. DATE OF BIRTH *(Mo., Day, Yr.)*
AGE
8a. RESIDENCE – STATE
8b. COUNTY
8c. CITY, TOWN OR LOCATION
8d. STREET ADDRESS & ZIP CODE
8e. INSIDE CITY LIMITS? Yes ☐ No ☐

RACE – (e.g., White, Black, Am. Indian, etc.) *Specify*
8f. MOTHER
8g. FATHER

SPANISH ORIGIN?
12a. Mother Yes ☐ No ☐
If yes, indicate
☐ Mexican
☐ Cuban
☐ Puerto Rican
☐ Other, *Specify*
12b. Father Yes ☐ No ☐
If yes, indicate
☐ Mexican
☐ Cuban
☐ Puerto Rican
☐ Other, *Specify*

EDUCATION (Specify only highest grade completed)
Elementary or secondary (0-12) - College (13-16 or 17+)
10a. MOTHER:
10b. FATHER:

Usual Occupation – (Kind of work usually done even if not currently employed) *(Specify)*
11. MOTHER:
FATHER:

13. DATE Last normal menses began *(Mo., Day, Yr.)*
14. Month of Pregnancy Prenatal Care began (first, second, etc.) *Specify*

PREGNANCY HISTORY (Complete each section)

LIVE BIRTHS *(Do not include this Delivery)*
9a. Now Living No. ______ ☐ None
9b. Now dead No. ______ ☐ None
9c. DATE of last Live Birth *(Mo., Yr.)*

OTHER TERMINATIONS *(Spontaneous and Induced)*
9d. Before 20 wks. No. ______ ☐ None
9e. After 20 wks. No. ______ ☐ None
9f. DATE of last Other Termination *(as indicated in d or e above) (Mo., Yr.)*

15. PRENATAL VISITS Total No. *(If none, so state)*
16. IS MOTHER MARRIED? Yes ☐ No ☐
17. FATHER – Name *First* *Middle* *Last*
18. DATE OF BIRTH *(Mo., Day, Yr.)*
AGE

CAUSE OF FETAL DEATH

19. *[Enter only one cause per line for a, b, and c]*

I Fetal or maternal condition directly causing fetal death.
a. IMMEDIATE CAUSE — Specify Fetal or Maternal

Fetal and/or maternal conditions, if any giving rise to the immediate cause (a), stating the underlying cause last
b. DUE TO, or AS A CONSEQUENCE OF: — Specify Fetal or Maternal
c. DUE TO, or AS A CONSEQUENCE OF: — Specify Fetal or Maternal

II OTHER SIGNIFICANT CONDITIONS OF FETUS OR MOTHER: Conditions contributing to fetal death but not related to cause given in (a)

20. FETUS DIED - Before labor, during labor or delivery, Unknown *(Specify)*
21. PHYSICIAN'S ESTIMATE OF GESTATION WEEKS
22. AUTOPSY *(Specify yes or no)*
23. COMPLICATIONS OF PREGNANCY *(Describe or write "none")*
24. METHOD OF DELIVERY (Check all applicable boxes)
☐ Spontaneous/Vaginal ☐ Caesarean Section ☐ Emergency ☐ Repeat
☐ Mid Forceps *(If Caesarean, was it?)* ☐ Elective ☐ Primary
25. CONCURRENT ILLNESSES OR CONDITIONS AFFECTING THE PREGNANCY *(Describe or write "none")*
26. CONGENITAL MALFORMATIONS OR ANOMALIES OF FETUS *(Describe or write "none")*

I certify that the fetus identified above was delivered at the place and time and on the date stated above and did not show evidence of life, and to the best of my knowledge died from the causes stated.

27. Attendant Signature ▶
28. Attendant – NAME, TITLE (MD, DO, Certified Midwife, Other) AND LICENSE NO. *(Type or Print)*

DISPOSITION OF FETUS

29. BURIAL, CREMATION, OR REMOVAL *(Specify)*
30. CEMETERY OR CREMATORY – Name
31. LOCATION *(City, town, state)*
32. DATE *(Mo., Day, Year)*
33. FUNERAL HOME – Name, address & license no. (Street or R.F.D. No., City or Town State, Zip Code)
34. FUNERAL DIRECTOR – Name
35. REGISTRAR – Signature ▶
36. DATE received by local registrar *(Mo., Day, Yr.)*

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FIGURE C-4

fact, coupled with information from sample studies, indicates that the completeness of birth certificate registration now exceeds 99 percent. It is recognized that there is some under-registration of infants who die shortly after birth.

The registration of fetal deaths of more than 20 weeks gestation is required by statute. Many fetal deaths are not medically attended and frequently they may not be identified as fetal deaths, thus it is widely recognized that there is incomplete registration of fetal deaths. Because of this under-registration of fetal deaths the Utah data probably understates the size of this problem and the statistics about associated factors and causes of fetal deaths may be unreliable.

Death certificate registration is thought to be nearly 100 percent complete because a death certificate must be filed before disposition of the remains can be made. There may be some under-registration of infant deaths occurring in the first day of life.

Limitations of Small Numbers

All statistics are subject to chance variation. Such random variation in a large number of events has little effect on the data for the group, however, random variation in a small number of events may result in a startling change in the data for the group. For example, minor differences in the number of births or deaths in small populations or in the number of deaths from uncommon causes may result in large changes in these rates. Rates for areas of small population or for events with few occurrences should be interpreted with this limitation in mind.

Vital Statistics Rates and Ratios

Vital Statistics data provide better measures of health status when they are related to the size of the population (rates) and particularly to the age and sex components of the population (age and sex-specific rates). During the intercensus years, the validity of vital statistics' rates depends upon the accuracy of population estimates. The State total population estimates used in this were prepared by the U.S. Bureau of the Census. The county population estimates were prepared by the Utah Population Work Committee. The estimates include the resident military and civilian populations.

For the most part, rates presented in this report are crude rates, i.e., the number of events per 1,000 total population. Crude rates are limited for purposes of making comparisons among geographic areas, and for changes over periods of time because they ignore characteristics of the population such as age and sex. Intercensus population estimates by age have been made for 1970 through the present year. These estimates and the resulting age-specific rates are provisional.

Infant deaths include all deaths of persons under 1 year of age. Fetal deaths include all deaths of fetuses of 20 or more weeks gestation.

The infant and fetal death rates are respectively the number of infant and fetal deaths per 1,000 live births.

Maternal deaths include any death that results from complications of pregnancy, childbirth, and the puerperium. Because of the infrequency of maternal deaths in Utah they are usually expressed as absolute numbers only.

Cause of Death

Cause-of-death statistics are derived from the medical certification information required by law to be reported on the death or fetal death certificate by the attending physician or medical examiner. The medical certification item on certificates of death and fetal death has provisions for reporting three causes of death--immediate, intervening, and underlying, plus additional information related to the cause of death. The cause of death selected for coding and tabulating mortality statistics is the "underlying cause of death," which is generally defined as the disease or injury which initiated the sequence of morbid events leading directly to death.

Occasionally, death certificates are registered with the cause-of-death information incomplete, inconsistent, or equivocal, and additional information from the certifier is not available. In such cases, selection and modification rules are used to select the underlying cause of death for statistical purposes. Selection and modification rules which adapt the coding procedures to reporting practices in the United States are published by the Public Health Service, National Center for Health Statistics, in annual editions of the Vital Statistics Instruction Manual. From January 1, 1968 through December 31, 1978 the Eighth Revision International

Classification of Diseases was used in classifying the underlying cause of death on Utah death certificates. Starting January 1, 1979 the Ninth Revision of the International Classification of Diseases has been used to code the underlying cause of death in Utah. There are a number of changes from the eighth edition used in 1978. The following tables (1 and 2, from the Monthly Vital Statistics Report) provide the comparability ratios as computed by the National Center for Health Statistics.[1] As can be seen, the comparability ratios for some cause-of-death codes are extremely high and utmost caution should be taken in interpreting any cause-of-death trends that span the Eighth and Ninth Revisions of the International Classification of Diseases.

Geographic Bases

Birth and death data are presented by place of occurrence of the event or by place of usual residence of the individual. For deaths, "place of residence" is defined as the residence of the decedent. For births, "place of residence" for the child is defined as the usual residence of the mother.

Re-allocation of birth and death certificates to the state of residence has been virtually complete on a nationwide basis since 1955. This was made possible by a cooperative program among the states for exchange of copies of certificates of nonresident events.

It is considered to be meaningful for some purposes to tabulate accidental deaths by place of occurrence rather than by place of residence. Statistical tabulations of accidental deaths "by place of occurrence" refer to the place where the death occurred, and not the place where the accident occurred. A hypothetical example may help to clarify the above explanation. Assume that an individual from Denver, Colorado is involved in a motor vehicle accident in Wendover, Nevada and required emergency aid of a special nature. The closest available facility is at the University Medical Center in Salt Lake City, Utah. After arriving at the hospital, the patient succumbs to conditions arising from the accident. In such a case the "place of occurrence" for statistical purposes would be Salt Lake City, Utah, not Wendover, Nevada.

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[1] Monthly Vital Statistics Report, NCHS, DHEW Publication No. (PHS) 80-1120, Vol. 28, No. 11, Supplement, February 29, 1980, pp 12-13.

Table 1. COMPARABILITY RATIOS FOR 72 SELECTED CAUSES; BASED ON A STRATIFIED RANDOM SAMPLE OF 1976 DEATHS ASSIGNED ACCORDING TO THE NINTH REVISION AND ON ALL DEATHS ASSIGNED ACCORDING TO THE EIGHTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES: UNITED STATES

[Denominators of ratios were selected from the List of 70 Selected Causes of Death used during 1968-78 for the Annual Summary]

Cause of death (Ninth Revision of the International Classification of Diseases, 1975)	Number of deaths assigned according to–		Estimated compara-bility ratio[2] (3)	Error of the estimate of the ratio in (3)		95 percent confidence limits[3]	
	Ninth Revision (estimated from sample) (1)	Eighth Revision (total count)[1] (2)		Standard error (4)	Relative standard error (5)	Upper (6)	Lower (7)
All causes	1,909,440	1,909,440	...	...	...		
Shigellosis and amebiasis ... 004,006	54	55	0.9818	0.0378	3.9	1.0559	0.9077
Certain other intestinal infections ... 007-009	353	1,939	0.1821	0.0207	11.4	0.2227	0.1415
Tuberculosis ... 010-018	2,400	3,130	0.7668	0.0119	1.6	0.7901	0.7435
Tuberculosis of respiratory system ... 010-012	2,039	2,419	0.8429	0.0146	1.7	0.8716	0.8143
Other tuberculosis ... 013-018	361	711	0.5077	0.0167	3.3	0.5404	0.4750
Whooping cough ... 033	6	7	0.8571	0.0000	0.0	0.8571	0.8571
Streptococcal sore throat, scarlatina, and erysipelas ... 034-035	20	14	1.4286	0.0000	0.0	1.4286	1.4286
Meningococcal infection ... 036	323	330	0.9788	0.0124	1.3	1.0030	0.9546
Septicemia ... 038	5,441	6,401	0.8500	0.0180	2.1	0.8853	0.8147
Acute poliomyelitis ... 045	8	16	0.5000	0.0000	0.0	0.5000	0.5000
Measles ... 055	11	12	0.9167	0.0000	0.0	0.9167	0.9167
Viral hepatitis ... 070	793	567	1.3986	0.0820	5.9	1.5593	1.2379
Syphilis ... 090-097	227	225	1.0089	0.0259	2.6	1.0596	0.9582
All other infectious and parasitic diseases 001-003,005,020-032,037,039-041,046-054,056-066,071-088,098-139	3,981	3,857	1.0321	0.0634	6.1	1.1563	0.9079
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues ... 140-208	378,289	377,312	1.0026	0.0017	0.2	1.0059	0.9993
Malignant neoplasms of lip, oral cavity, and pharynx ... 140-149	8,209	8,114	1.0117	0.0087	0.9	1.0286	0.9948
Malignant neoplasms of digestive organs and peritoneum ... 150-159	105,081	101,729	1.0330	0.0035	0.3	1.0398	1.0262
Malignant neoplasms of respiratory and intrathoracic organs ... 160-165	91,191	91,131	1.0007	0.0033	0.3	1.0071	0.9943
Malignant neoplasm of breast ... 174-175	33,701	33,403	1.0089	0.0022	0.2	1.0131	1.0047
Malignant neoplasms of genital organs ... 179-187	44,953	44,461	1.0111	0.0031	0.3	1.0171	1.0051
Malignant neoplasms of urinary organs ... 188-189	16,851	16,980	0.9924	0.0045	0.5	1.0011	0.9837
Malignant neoplasms of all other and unspecified sites ... 170-173,190-199	43,938	45,975	0.9557	0.0082	0.9	0.9718	0.9396
Leukemia ... 204-208	15,161	15,056	1.0070	0.0056	0.6	1.0180	0.9960
Other malignant neoplasms of lymphatic and hematopoietic tissues ... 200-203	19,205	20,463	0.9385	0.0069	0.7	0.9519	0.9251
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature ... 210-239	5,703	4,719	1.2085	0.0261	2.2	1.2595	1.1575
Diabetes mellitus ... 250	34,478	34,508	0.9991	0.0087	0.9	1.0162	0.9820
Nutritional deficiencies ... 260-269	1,877	2,619	0.7167	0.0262	3.7	0.7680	0.6654
Anemias ... 280-285	2,958	3,182	0.9296	0.0124	1.3	0.9538	0.9054
Meningitis ... 320-322	1,503	1,589	0.9459	0.0163	1.7	0.9777	0.9141
Major cardiovascular diseases ... 390-448	981,184	974,429	1.0069	0.0004	0.0	1.0076	1.0062
Diseases of heart ... 390-398,402,404-429	732,989	723,878	1.0126	0.0039	0.4	1.0202	1.0050
Rheumatic fever and rheumatic heart disease ... 390-398	8,715	13,110	0.6648	0.0080	1.2	0.6804	0.6492
Hypertensive heart disease ... 402	22,026	6,670	3.3022	0.0557	1.7	3.4114	3.1930
Hypertensive heart and renal disease ... 404	4,872	4,020	1.2119	0.3438	3.6	1.2978	1.1260
Ischemic heart disease ... 410-414	567,520	646,073	0.8784	0.0038	0.4	0.8859	0.8709
Acute myocardial infarction ... 410	319,562	319,477	1.0003	0.0054	0.5	1.0108	0.9898
Other acute and subacute forms of ischemic heart disease ... 411	4,924	4,028	1.2224	0.0661	5.4	1.3519	1.0929
Angina pectoris ... 413	195	186	1.0484	0.0666	6.4	1.1789	0.9179
Old myocardial infarction and other forms of chronic ischemic heart disease ... 412,414	242,839	322,382	0.7533	0.0055	0.7	0.7640	0.7426
Other diseases of endocardium ... 424	5,154	4,195	1.2286	0.0227	1.8	1.2731	1.1841
All other forms of heart disease ... 415-423,425-429	124,701	49,810	2.5035	0.0257	1.0	2.5539	2.4531
Hypertension with or without renal disease ... 401,403	7,787	6,130	1.2703	0.0294	2.3	1.3280	1.2126
Cerebrovascular diseases ... 430-438	189,553	188,623	1.0049	0.0066	0.7	1.0178	0.9920
Intracerebral and other intracranial hemorrhage ... 431-432	24,760	24,845	0.9969	0.0068	0.7	1.0102	0.9836
Cerebral thrombosis and unspecified occlusion of cerebral arteries ... 434.0,434.9	46,328	44,803	1.0340	0.0222	2.1	1.0774	0.9906
Cerebral embolism ... 434.1	926	826	1.1211	0.0924	8.2	1.3022	0.9400
All other and late effects of cerebrovascular diseases ... 430,433,435-438	117,530	118,149	0.9948	0.0061	0.6	1.0067	0.9829
Atherosclerosis ... 440	31,273	29,366	1.0649	0.0246	2.3	1.1130	1.0168
Other diseases of arteries, arterioles, and capillaries ... 441-448	19,583	26,432	0.7409	0.0098	1.3	0.7600	0.7218
Acute bronchitis and bronchiolitis ... 466	759	854	0.8888	0.0274	3.1	0.9425	0.8351
Pneumonia and influenza ... 480-487	57,315	61,866	0.9264	0.0067	0.7	0.9394	0.9134
Pneumonia ... 480-486	49,663	53,989	0.9199	0.0076	0.8	0.9347	0.9051
Influenza ... 487	7,652	7,877	0.9714	0.0078	0.8	0.9866	0.9562
Chronic obstructive pulmonary diseases and allied conditions ... 490-496	46,002	24,410	1.8846	0.0150	0.8	1.9141	1.8551
Bronchitis, chronic and unspecified ... 490-491	4,353	4,639	0.9383	0.0134	1.4	0.9646	0.9120
Emphysema ... 492	17,387	17,796	0.9770	0.0127	1.3	1.0018	0.9522
Asthma ... 493	2,675	1,975	1.3544	0.0638	4.7	1.4790	1.2298
Other chronic obstructive pulmonary diseases and allied conditions ... 494-496	21,588	[4]...	[4]...	[4]...	[4]...	[4]	[4]...
Ulcer of stomach and duodenum ... 531-533	7,194	6,428	1.1192	0.0247	2.2	1.1675	1.0709
Appendicitis ... 540-543	758	752	1.0080	0.0264	2.6	1.0597	0.9563
Hernia of abdominal cavity and intestinal obstruction without mention of hernia ... 550-553,560	5,583	5,919	0.9432	0.0169	1.8	0.9762	0.9102

See footnotes at end of table.

Table 1. COMPARABILITY RATIOS FOR 72 SELECTED CAUSES; BASED ON A STRATIFIED RANDOM SAMPLE OF 1976 DEATHS ASSIGNED ACCORDING TO THE NINTH REVISION AND ON ALL DEATHS ASSIGNED ACCORDING TO THE EIGHTH REVISION OF THE INTERNATIONAL CLASSIFICATION OF DISEASES: UNITED STATES—Con.

[Denominators of ratios were selected from the List of 70 Selected Causes of Death used during 1968-78 for the Annual Summary]

Cause of death (Ninth Revision of the International Classification of Diseases, 1975)	Number of deaths assigned according to–		Estimated compara-bility ratio[2]	Error of the estimate of the ratio in (3)		95 percent confidence limits[3]	
	Ninth Revision (estimated from sample) (1)	Eighth Revision (total count)[1] (2)	(3)	Standard error (4)	Relative standard error (5)	Upper (6)	Lower (7)
Chronic liver disease and cirrhosis........571	31,799	31,453	1.0110	0.0069	0.7	1.0245	0.9975
Cholelithiasis and other disorders of gallbladder........574-575	3,102	2,956	1.0494	0.0445	4.2	1.1366	0.9622
Nephritis, nephrotic syndrome, and nephrosis........580-589	14,859	8,541	1.7397	0.0777	4.5	1.8920	1.5874
Acute glomerulonephritis and nephrotic syndrome........580-581	426	1,759	0.2422	0.0185	7.6	0.2783	0.2061
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified........582-583,587	3,360	6,782	0.4954	0.0195	3.9	0.5335	0.4573
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause........584-586,588-589	11,073	6,782	1.6327	0.0958	5.9	1.8205	1.4449
Infections of kidney........590	3,968	4,017	0.9878	0.0091	0.9	1.0056	0.9700
Hyperplasia of prostate........600	1,102	1,077	1.0232	0.0226	2.2	1.0674	0.9790
Complications of pregnancy, childbirth, and the puerperium........630-676	429	390	1.1000	0.0435	4.0	1.1853	1.0147
Pregnancy with abortive outcome........630-638	61	16	3.8125	0.0000	0.0	3.8125	3.8125
Other complications of pregnancy, childbirth, and the puerperium........640-676	368	374	0.9840	0.0454	4.6	1.0729	0.8951
Congenital anomalies........740-759	12,981	13,002	0.9984	0.0100	1.0	1.0179	0.9789
Certain conditions originating in the perinatal period........760-779	26,706	24,809	1.0765	0.0238	2.2	1.1230	1.0300
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome........767-769	10,061	13,432	0.7483	0.0306	4.1	0.8083	0.6883
Other conditions originating in the perinatal period........760-766,770-779	16,655	11,377	1.4639	0.0371	2.5	1.5367	1.3911
Symptoms, signs, and ill-defined conditions........780-799	28,037	30,802	0.9102	0.0121	1.3	0.9338	0.8866
All other diseases........Residual	97,585	125,340	0.7786	0.0082	1.1	0.7947	0.7625
Accidents and adverse effects........E800-E949	100,454	100,761	0.9970	0.0030	0.3	1.0029	0.9911
Motor vehicle accidents........E810-E825	47,587	47,038	1.0117	0.0027	0.3	1.0169	1.0065
All other accidents and adverse effects........E800-E807,E826-E949	52,867	53,723	0.9841	0.0051	0.5	0.9941	0.9741
Suicide........E950-E959	26,919	26,832	1.0032	0.0042	0.4	1.0114	0.9950
Homicide and legal intervention........E960-E978	19,666	19,554	1.0057	0.0030	0.3	1.0115	0.9999
All other external causes........E980-E999	4,611	4,766	0.9675	0.0144	1.5	0.9957	0.9393

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[1] Figures in this column are number of deaths in 1976 assigned to the categories in the Eighth Revision, selected as the most nearly comparable to the Ninth Revision categories, as shown in Table A.

[2] Ratio of deaths assigned according to the Ninth Revision to deaths assigned according to the Eighth Revision.

[3] The probability is 95 percent that the true comparability ratio will have a value between the upper and lower limits shown. These limits were computed before the standard error was rounded to the fourth decimal.

[4] Chronic obstructive lung disease without mention of asthma, bronchitis, or emphysema (No *519.3), introduced by NCHS to be used with the Eighth Revision, is comparable to Other chronic obstructive pulmonary diseases and allied conditions (ICD Nos. 494-496) of the Ninth Revision. The comparability ratio for this set of titles is 1.0054, with a standard error of 0.0118, a relative error of 1.2 percent, and 95 percent confidence limits of 1.0285 and 0.9823. These data are not shown in this table because there are no sample data for *519.3.

Table 2. COMPARABILITY RATIOS FOR 10 SELECTED CAUSES OF INFANT DEATHS FOR THE *MONTHLY VITAL STATISTICS REPORT*, BASED ON A STRATIFIED RANDOM SAMPLE OF 1976 INFANT DEATHS ASSIGNED ACCORDING TO THE NINTH REVISION AND ON ALL INFANT DEATHS ASSIGNED ACCORDING TO THE EIGHTH REVISION: UNITED STATES

[Denominators of ratios were selected from the List of 8 Selected Causes of Infant Death used during 1968-78 for the *Monthly Vital Statistics Report*]

Cause of death (Ninth Revision of the International Classification of Diseases, 1975)	Number of deaths assigned according to–		Estimated compara-bility ratio[2]	Error of the estimate of the ratio in (3)		95 percent confidence limits[3]	
	Ninth Revision (estimated from sample) (1)	Eighth Revision (total count)[1] (2)	(3)	Standard error (4)	Relative standard error (5)	Upper (6)	Lower (7)
All causes........	48,265	48,265	1.0000				
Certain gastrointestinal diseases........008-009,535,555-558	356	761	0.4678	0.0228	4.9	0.5125	0.4231
Pneumonia and influenza........480-487	1,465	1,961	0.7471	0.0200	2.7	0.7862	0.7078
Congenital anomalies........740-759	8,404	8,345	1.0071	0.0062	0.6	1.0191	0.9949
Disorders relating to short gestation and unspecified low birthweight........765	3,830	3,977	0.9630	0.0107	1.1	0.9839	0.9421
Birth trauma........767	1,297	1,813	0.7154	0.0337	4.7	0.7813	0.6493
Intrauterine hypoxia and birth asphyxia........768	1,177	3,599	0.3270	0.0212	6.5	0.3684	0.2856
Respiratory distress syndrome........769	7,560	...	...	...	...	...	...
Other conditions originating in the perinatal period........760-764,766,770-779	13,059	15,378	0.8492	0.0098	1.1	0.8683	0.8301
Sudden infant death syndrome........798.0	4,334	...	...	...	...	...	...
All other causes........Residual	6,781	12,431	0.5455	0.0061	1.1	0.5573	0.5335

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[1] Figures in this column are number of infant deaths in 1976 assigned to the categories in the Eighth Revision, selected as the most nearly comparable to the Ninth Revision categories, as shown in Table B.

[2] Ratio of deaths assigned according to the Ninth Revision to deaths assigned according to the Eighth Revision.

[3] The probability is 95 percent that the true comparability ratio will have a value between the upper and lower limits shown. These limits were computed before the standard error was rounded to the fourth decimal.